Machine Learning

Graded Exercise:	IN2064 / Endterm	**Date:**	Tuesday 16th February, 2021
Examiner:	Prof. Dr. Stephan Günnemann	**Time:**	11:00 – 13:00

Working instructions

- This graded exercise consists of **28 pages** with a total of **23 problems**.
  Please make sure now that you received a complete copy of the answer sheet.

- The total amount of achievable credits in this graded exercise is 107 credits.

- Allowed resources:

  — all materials that you will use on your own (lecture slides, calculator etc.)

  — **not allowed are any forms of collaboration between examinees and plagiarism**

- You have to sign the code of conduct. (Typing your name is fine)

- You have to either print this document and scan your solutions or paste scans/pictures of your handwritten solutions into the solution boxes in this PDF. **Editing the PDF digitally is prohibited except for signing the code of conduct and answering multiple choice questions.**

- Make sure that the **QR codes are visible** on every uploaded page. Otherwise, we cannot grade your submission.

- **You must solve the specified version of the problem.** Different problems may have different version: e.g. Problem 1 (Version A), Problem 5 (Version C), etc. If you solve the wrong version you get **zero** points.

- Only write on the provided sheets, **submitting your own additional sheets is not possible**.

- Last three pages can be used as scratch paper.

- All sheets (including scratch paper) have to be submitted to the upload queue. Missing pages will be considered empty.

- **Only use a black or blue color (no red or green)! Pencils are allowed.**

- Write your answers only in the provided solution boxes or the scratch paper.

- **For problems that say "Justify your answer" you only get points if you provide a valid explanation.**

- **For problems that say "Prove" you only get points if you provide a valid mathematical proof.**

- If a problem does not say "Justify your answer" or "Prove" it's sufficient to only provide the correct answer.

- Instructor announcements and clarifications will be posted **on Piazza** with email notifications.

- Exercise duration - 120 minutes.

Left room from _____ to _____ / Early submission at _____

Machine Learning Exam Solution

Jean-Francois Boulicaut,Floriana Esposito,Fosca Giannotti,Dino Pedreschi

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   Machine Learning Peter Flach,2012-09-20 Covering all the main approaches in state of the art machine learning research this will set a new standard as an introductory textbook   *AWS Certified Machine Learning Study Guide* Shreyas Subramanian,Stefan Natu,2021-11-19 Succeed on the AWS Machine Learning exam or in your next job as a machine learning specialist on the AWS Cloud platform with this hands on guide As the most popular cloud service in the world today Amazon Web Services offers a wide range of opportunities for those interested in the development and deployment of artificial intelligence and machine learning business solutions The AWS Certified Machine Learning Study Guide Specialty MLS CO1 Exam delivers hyper focused authoritative instruction for anyone considering the pursuit of the prestigious Amazon Web Services Machine Learning certification or a new career as a machine learning specialist working within the AWS architecture From exam to interview to your first day on the job this study guide provides the domain by domain specific knowledge you need to build train tune and deploy machine learning models with the AWS Cloud And with the practice exams and assessments electronic flashcards and supplementary online resources that accompany this Study Guide you ll be prepared for success in every subject area covered by the exam You ll also find An intuitive and organized layout perfect for anyone taking the exam for the first time or seasoned professionals seeking a refresher on machine learning on the AWS Cloud Authoritative instruction on a widely recognized certification that unlocks countless career opportunities in machine learning and data science Access to the Sybex online learning resources and test bank with chapter review questions a full length practice exam hundreds of electronic flashcards and a glossary of key terms AWS Certified Machine Learning Study Guide Specialty MLS CO1 Exam is an indispensable guide for anyone seeking to prepare themselves for success on the AWS Certified Machine Learning Specialty exam or for a job interview in the field of machine learning or who wishes to improve their skills in the field as they pursue a career in AWS machine learning   *Cybernetics, Cognition and Machine Learning Applications* Vinit Kumar Gunjan,P. N. Suganthan,Jan Haase,Amit Kumar,2021-03-30 This book includes the original peer reviewed research articles from the 2nd International Conference on Cybernetics Cognition and Machine Learning Applications ICCCMLA 2020 held in August 2020 at Goa India It covers the latest research trends or developments in areas of data science artificial intelligence neural networks cognitive science and machine learning applications cyber physical systems and cybernetics   *Machine Learning: ECML 2004* Jean-Francois Boulicaut,Floriana Esposito,Fosca Giannotti,Dino Pedreschi,2004-11-05 The proceedings of ECML PKDD 2004 are published in two separate albeit tertwined volumes theProceedingsofthe 15thEuropeanConferenceonMac ne Learning LNAI 3201 and the Proceedings of the 8th European Conferences on Principles and Practice of Knowledge Discovery in Databases LNAI 3202 The two conferences were co located in Pisa Tuscany Italy during September 20 24 2004 It was the fourth time in a row that ECML and PKDD were co located ter the successful co locations in Freiburg 2001 Helsinki 2002 and Cavtat Dubrovnik 2003 it became clear that

researchersstrongly supported the or nization of a major scienti c event about machine learning and data mining in Europe We are happy to provide some statistics about the conferences 581 di erent papers were submitted to ECML PKDD about a 75% increase over 2003 280 weresubmittedtoECML2004only 194weresubmittedtoPKDD2004only and 107weresubmitted to both Aroundhalfofthe authorsforsubmitted papersare from outside Europe which is a clear indicator of the increasing attractiveness of ECML PKDD The Program Committee members were deeply involved in what turned out to be a highly competitive selection process We assigned each paper to 3 viewers deciding on the appropriate PC for papers submitted to both ECML and PKDD As a result ECML PC members reviewed 312 papers and PKDD PC members reviewed 269 papers We accepted for publication regular papers 45 for ECML 2004 and 39 for PKDD 2004 and short papers that were as ciated with poster presentations 6 for ECML 2004 and 9 for PKDD 2004 The globalacceptance ratewas14 5%for regular papers 17% if we include the short papers   Google Certification Guide - Google Professional Machine Learning Engineer Cybellium, Google Certification Guide Google Professional Machine Learning Engineer Unlock the World of Machine Learning on Google Cloud Embark on a transformative journey to become a Google Professional Machine Learning Engineer with this comprehensive guide Designed for those who aspire to master the application of machine learning techniques and tools in the Google Cloud environment this book is an essential resource for professionals seeking to harness the power of ML in their projects and workflows What Awaits Inside Advanced ML Concepts and Practices Dive deep into the world of machine learning on Google Cloud covering services like AI Platform TensorFlow and BigQuery ML Real World Applications Learn through practical scenarios and hands on examples illustrating the effective implementation of machine learning models and solutions on Google Cloud Strategic Exam Preparation Gain crucial insights into the certification exam s structure and content complemented by comprehensive practice questions and preparation strategies Cutting Edge ML Trends Stay updated with the latest advancements in Google Cloud machine learning technologies ensuring your skills remain relevant and innovative Authored by a Machine Learning Expert Written by an experienced practitioner in the field of machine learning on Google Cloud this guide bridges the gap between theoretical knowledge and practical application offering a rich and comprehensive learning experience Your Comprehensive Guide to ML Certification Whether you re an experienced machine learning engineer or looking to elevate your expertise in Google Cloud s ML offerings this book is a valuable companion guiding you through the intricacies of machine learning in Google Cloud and preparing you for the Professional Machine Learning Engineer certification Elevate Your Machine Learning Journey This guide is more than a pathway to certification it s a deep dive into the practical and innovative aspects of machine learning in the Google Cloud environment designed to equip you with the skills and knowledge for a thriving career in this dynamic field Begin Your Machine Learning Adventure Start your journey to becoming a certified Google Professional Machine Learning Engineer This guide is not just about passing an exam it s about unlocking new opportunities and frontiers in the exciting world of machine learning on

Artificial Intelligence Leonidas Deligiannidis,George Dimitoglou,Hamid Arabnia,2024-08-05 Artificial Intelligence AI revolves around creating and utilizing intelligent machines through science and engineering This book delves into the theory and practical applications of computer science methods that incorporate AI across many domains It covers techniques such as Machine Learning ML Convolutional Neural Networks CNN Deep Learning DL and Large Language Models LLM to tackle complex issues and overcome various challenges *Microsoft Azure AI Fundamentals (AI-900) Certification Guide: Master AI, Machine Learning, and Azure Cloud Intelligence to Earn Your Microsoft Azure AI-900 Certification* Higor Luis,2026-02-07 Empower your AI Cloud Career with Microsoft Azure AI 900 Certification KEY FEATURES Complete coverage of Azure AI AI 900 objectives with real world Azure examples Hands on learning using Azure AI Services Azure Cognitive ML and Responsible AI tools Practical exam strategies practice tests and expert driven insights DESCRIPTIONThe Microsoft Azure AI Fundamentals AI 900 certification is one of the most in demand credentials and your gateway to understanding AI and how it drives innovation in the cloud The Microsoft Azure AI Fundamentals AI 900 Certification Guide takes you on a step by step journey from foundational AI principles to hands on implementation using Microsoft Azure You will start by exploring the building blocks of AI understanding workloads data science fundamentals and the difference between AI ML and deep learning From there the book dives into Azure Cognitive Services guiding you through Vision Language Speech and Decision making capabilities with practical examples and use cases You will also learn how to build intelligent applications that see hear and understand the world around them As your knowledge deepens you can work with Azure Machine Learning to train evaluate and deploy predictive models explore Generative AI with Azure OpenAI Service and implement responsible AI principles to ensure that your solutions are fair transparent and ethical Each chapter is structured to reinforce understanding through real world scenarios guided exercises and exam focused insights that prepare you for success WHAT WILL YOU LEARN Understand core AI workloads and essential features of intelligent systems Explore Azure Cognitive Services for vision language and speech capabilities Build train and deploy machine learning models using Azure Machine Learning Apply Responsible AI principles to design safe fair and ethical solutions Prepare effectively for the AI 900 exam with practical real world examples Learn how AI solutions connect and integrate across Azure cloud services WHO IS THIS BOOK FOR This book is ideal for professionals preparing for the Microsoft Azure AI 900 certification including Cloud Engineers AI Developers Data Analysts Solution Architects and Business Analysts who want to understand and apply the core AI concepts using Azure It is also suitable for students and IT practitioners seeking a hands on introduction to AI Machine Learning ML and Responsible AI on the Azure platform No prior AI or data science experience is required TABLE OF CONTENTS1 Introduction to Exam AI 9002 Identify Features of Common AI Workloads3 Identify Guiding Principles for Responsible AI4 Identify Common Machine Learning Techniques5 Describe Core Machine Learning Concepts6 Describe Azure Machine Learning Capabilities7 Identify

Common Types of Computer Vision Solution8 Identify Azure Tools and Services for Computer Vision Tasks 9 Identifying Common NLP Workloads10 Identify Azure Tools and Services for NLP Workloads11 Identify Features of Generative AI Solutions12 Identifying the Capabilities of Azure OpenAI Service13 Practice Test and Sample Questions14 Best Practices Future Trends and Tips and Tricks Index **Microsoft Azure AI Fundamentals (AI-900) Certification Guide: Master AI, Machine Learning, and Azure Cloud Intelligence to Earn Your Microsoft Azure AI-900 Certification (English Edition)** Higor Luis Barbosa,2026-01-08 Empower your AI Cloud Career with Microsoft Azure AI 900 Certification Key Features Complete coverage of Azure AI AI 900 objectives with real world Azure examples Hands on learning using Azure AI Services Azure Cognitive ML and Responsible AI tools Practical exam strategies practice tests and expert driven insights Book Description The Microsoft Azure AI Fundamentals AI 900 certification is one of the most in demand credentials and your gateway to understanding AI and how it drives innovation in the cloud The Microsoft Azure AI Fundamentals AI 900 Certification Guide takes you on a step by step journey from foundational AI principles to hands on implementation using Microsoft Azure You will start by exploring the building blocks of AI understanding workloads data science fundamentals and the difference between AI ML and deep learning From there the book dives into Azure Cognitive Services guiding you through Vision Language Speech and Decision making capabilities with practical examples and use cases You will also learn how to build intelligent applications that see hear and understand the world around them As your knowledge deepens you can work with Azure Machine Learning to train evaluate and deploy predictive models explore Generative AI with Azure OpenAI Service and implement responsible AI principles to ensure that your solutions are fair transparent and ethical Each chapter is structured to reinforce understanding through real world scenarios guided exercises and exam focused insights that prepare you for success What you will learn Understand core AI workloads and essential features of intelligent systems Explore Azure Cognitive Services for vision language and speech capabilities Build train and deploy machine learning models using Azure Machine Learning Apply Responsible AI principles to design safe fair and ethical solutions Prepare effectively for the AI 900 exam with practical real world examples Learn how AI solutions connect and integrate across Azure cloud services Table of Contents 1 Introduction to Exam AI 900 2 Identify Features of Common AI Workloads 3 Identify Guiding Principles for Responsible AI 4 Identify Common Machine Learning Techniques 5 Describe Core Machine Learning Concepts 6 Describe Azure Machine Learning Capabilities 7 Identify Common Types of Computer Vision Solution 8 Identify Azure Tools and Services for Computer Vision Tasks 9 Identifying Common NLP Workloads 10 Identify Azure Tools and Services for NLP Workloads 11 Identify Features of Generative AI Solutions 12 Identifying the Capabilities of Azure OpenAI Service 13 Practice Test and Sample Questions 14 Best Practices Future Trends and Tips and Tricks Index **Machine Learning** Bruce Porter,Raymond Joseph Mooney,1990 Papers from the June 1990 Conference held at the U of Texas in Austin contain new work new results or major extensions of prior work in the field of machine learning The topics include concept learning

machine discovery connectionist learning genetic algorithms explanation based learning and **Machine Learning, ECML- ...** ,2004 **Machine Learning** Lawrence Birnbaum,Gregg Collins,1991 The proceedings of the Eighth International Workshop ML91 held at Northwestern U Evanston Illinois in June 1991 All papers contain new work new results or major extensions to prior work Topics include automated knowledge acquisition computational models of human learning constructive ind **Machine Learning** Lorenza Saitta,1996 **Databricks Certified Machine Learning Associate Certification Practice 300 Questions & Answer** Rashmi Shah, This book serves as a comprehensive guide for individuals preparing for the Databricks Certified Machine Learning Associate certification exam It is meticulously designed to cover the entire scope of the examination which assesses an individual s proficiency in leveraging Databricks for fundamental machine learning tasks The certification validates the ability to understand and effectively utilize Databricks machine learning capabilities including advanced features like AutoML Unity Catalog and select functionalities of MLflow Furthermore it evaluates skills in data exploration feature engineering model building encompassing training tuning and evaluation model selection and the crucial aspect of deploying machine learning models Passing this certification signifies an individual s capability to execute basic machine learning tasks proficiently using Databricks and its integrated toolset The examination s content is structured across key domains with specific weightages Databricks Machine Learning 38% ML Workflows 19% Model Development 31% Model Deployment 12% A detailed breakdown of the exam outline which this book thoroughly addresses includes Section 1 Databricks Machine Learning This section delves into the core aspects of MLOps strategies emphasizing best practices and the advantages of using ML runtimes It covers how AutoML facilitates model and feature selection highlighting its benefits in the model development process A significant focus is placed on Unity Catalog including the advantages of creating account level feature store tables versus workspace level the practical steps to create and write data to a feature store table and how to train and score models using features from these tables The differences between online and offline feature tables are also explored MLflow s role is extensively covered from identifying the best run using the MLflow Client API and manually logging metrics artifacts and models to understanding the MLflow UI The book details model registration in the Unity Catalog registry via the MLflow Client API contrasting its benefits with the workspace registry It also addresses scenarios for promoting code versus models and managing model versions through tags and aliases e g promoting a challenger to a champion model Section 2 Data Processing This part of the book focuses on essential data manipulation and preparation techniques within a Spark environment It covers computing summary statistics on a Spark DataFrame using summary or dbutils data summaries and methods for outlier removal based on standard deviation or IQR Emphasis is placed on creating visualizations for both categorical and continuous features and comparing feature types using appropriate methods The book provides a comprehensive understanding of imputing missing values with mode mean or median and the practical application of one hot encoding for categorical features including identifying appropriate scenarios

for its use It also discusses the relevance and application of log scale transformation Section 3 Model Development This section guides the reader through the intricacies of model building It covers selecting appropriate algorithms based on ML foundations for given scenarios and methods to mitigate data imbalance in training data The book differentiates between estimators and transformers and provides guidance on developing robust training pipelines Hyperparameter tuning is a key focus detailing the use of Hyperopt s fmin operation and exploring random grid or Bayesian search methods It also addresses parallelizing single node models for hyperparameter tuning The benefits and downsides of cross validation versus train validation splits are discussed along with practical application of cross validation in model fitting and understanding the number of models trained during grid search and cross validation The book extensively covers common classification metrics F1 Log Loss ROC AUC and regression metrics RMSE MAE R squared guiding the reader in choosing the most appropriate metric for specific objectives Finally it addresses the need to exponentiate log transformed variables before evaluation and interpreting predictions and assessing the impact of model complexity and the bias variance tradeoff on model performance Section 4 Model Deployment The final section of the book is dedicated to deploying machine learning models It differentiates between and highlights the advantages of various model serving approaches batch real time and streaming Practical steps for deploying a custom model to a model endpoint are provided The book covers using pandas for performing batch inference and explains how streaming inference is achieved with Delta Live Tables It also details deploying and querying a model for real time inference and splitting data between endpoints for real time interference Assessment Details The Databricks Certified Machine Learning Associate exam is a proctored certification consisting of 48 multiple choice questions Candidates are allotted 90 minutes to complete the exam The registration fee is 200 No test aids are permitted during the examination The exam is available in English Japanese Brazilian Portuguese and Korean and is delivered via online proctoring Prerequisites and Recommendations While there are no formal prerequisites for taking the exam related training is highly recommended QuickTechie com offers valuable resources and insights that can aid in preparing for this certification ensuring a solid understanding of the concepts A recommended experience level of 6 months of hands on experience performing the machine learning tasks outlined in the exam guide is suggested for optimal preparation Validity and Recertification The certification has a validity period of two years To maintain certified status recertification is required every two years by taking the current version of the exam QuickTechie com can be a useful reference for staying updated on the latest exam versions and preparation strategies for recertification Unscored Content It is important to note that the exam may include unscored items These items are included to gather statistical information for future use and are not identified during the exam They do not impact the candidate s score and additional time is factored into the exam duration to account for their presence *Introduction to Machine Learning* Ethem Alpaydin,2010 A new edition of an introductory text in machine learning that gives a unified treatment of machine learning problems and solutions **Exam Ref DP-100**

Designing and Implementing a Data Science Solution on Azure Dayne Sorvisto,2024-12-06 Prepare for Microsoft Exam DP 100 and demonstrate your real world knowledge of managing data ingestion and preparation model training and deployment and machine learning solution monitoring with Python Azure Machine Learning and MLflow Designed for professionals with data science experience this Exam Ref focuses on the critical thinking and decision making acumen needed for success at the Microsoft Certified Azure Data Scientist Associate level Focus on the expertise measured by these objectives Design and prepare a machine learning solution Explore data and train models Prepare a model for deployment Deploy and retrain a model This Microsoft Exam Ref Organizes its coverage by exam objectives Features strategic what if scenarios to challenge you Assumes you have experience in designing and creating a suitable working environment for data science workloads training machine learning models and managing deploying and monitoring scalable machine learning solutions About the Exam Exam DP 100 focuses on knowledge needed to design and prepare a machine learning solution manage an Azure Machine Learning workspace explore data and train models create models by using the Azure Machine Learning designer prepare a model for deployment manage models in Azure Machine Learning deploy and retrain a model and apply machine learning operations MLOps practices About Microsoft Certification Passing this exam fulfills your requirements for the Microsoft Certified Azure Data Scientist Associate credential demonstrating your expertise in applying data science and machine learning to implement and run machine learning workloads on Azure including knowledge and experience using Azure Machine Learning and MLflow   **Machine Learning** Ryszard Stanisław Michalski,Jaime G. Carbonell,Tom M. Mitchell,1983   *Machine Learning* Armand Prieditis,Stuart Jonathan Russell,1995 Machine Learning Proceedings 1995   *Accounting & Reporting* Nathan M Bisk, JD, CPA,2002   **Machine Learning** Ivan Bratko,Sašo Ožeroski,1999   **Official Google Cloud Certified Professional Machine Learning Engineer Study Guide** Mona Mona,Pratap Ramamurthy,2023-10-27 Expert guidance for the Google Cloud Machine Learning certification exam In Google Cloud Certified Professional Machine Learning Study Guide a team of accomplished artificial intelligence AI and machine learning ML specialists delivers an expert roadmap to AI and ML on the Google Cloud Platform based on new exam curriculum With Sybex you ll prepare faster and smarter for the Google Cloud Certified Professional Machine Learning Engineer exam and get ready to hit the ground running on your first day at your new job as an ML engineer The book walks readers through the machine learning process from start to finish starting with data feature engineering model training and deployment on Google Cloud It also discusses best practices on when to pick a custom model vs AutoML or pretrained models with Vertex AI platform All technologies such as Tensorflow Kubeflow and Vertex AI are presented by way of real world scenarios to help you apply the theory to practical examples and show you how IT professionals design build and operate secure ML cloud environments The book also shows you how to Frame ML problems and architect ML solutions from scratch Banish test anxiety by verifying and checking your progress with built in self assessments and other practical tools

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Table of Contents Machine Learning Exam Solution

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