Jonathan Dedinata

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EDUCATION

University of California - Irvine

M.S. Computer Science • 3.6 — **September 2021 - December 2022**

B.S. Computer Science and Engineering • 3.6 — **September 2015 - June 2018**

EXPERIENCE

Apple

Lead Software Analyst — **April 2020 - August 2021, Sunnyvale, CA**

- Led a team of 10 and organized efforts to gather meaningful data and trends to decrease application processing times.
- Utilized Tableau to analyze workflows, improving SLAs by 66% and further decreasing processing times by 75%.
- Collaborated with governmental and medical institutions for deploying COVID-19 applications and making critical decisions.

Software Analyst — **May 2019 - April 2020, Sunnyvale, CA**

- Analyzed and reviewed 105 iOS applications daily based on design, performance, and utility, pushing for 130% of daily target.
- Collaborated with cross-departmental teams to introduce more automation in workflows, cutting processing times by 60%.
- Assisted marketing team to resolve 95% of reported issues while following up on 100% of feedback from developers.

Google

Content Analyst — **October 2018 - March 2019, San Jose, CA**

- Analyzed content and tested 90 Android applications daily based on design and performance for publishing to the Play Store.
- Increased efficiency of application analyses by 40% by using automation to identify and keep track of application trends.
- Decreased application processing times by 33% by removing parts of workflows that contribute least to meaningful data.

PROJECTS

Diabetic Patients Classification

Data Mining & Machine Learning Project — May 2023 - Present

- Developed a predictive model using Azure Machine Learning to classify patients with diabetes, performing at 89% accuracy.
- Utilized ETL tools to perform data mining on big data sets for exploratory data analysis and classification model exploration.
- Deployed model to web services using Azure Container Instances, reachable using REST endpoints for public access.

SpaceX Falcon 9 Launch Outcome Predictor

IBM Data Science Capstone Project — March 2023 -May 2023

- Gathered and curated data using ETL processes through the SpaceX API and web-scraped Wikipedia, ensuring data usability.
- Deployed SQL server databases on IBM Db2 for exploratory data analysis and data visualizations using sqlite3 and Matplotlib.
- Developed classification models (e.g. Logistic Regression, KNN, SVM) using scikit-learn, achieving 83% prediction accuracy.

Title Generation and Text Summarization of Forum Threads

Natural Language Processing Deep Learning Team Project — March 2022 - June 2022

- Implemented an NLP program using PyTorch to summarize texts from Reddit posts, reducing 80% of bloat content.
- Utilized advanced Seq2Seq models such as the RNN model and the BART Transformer model from the HuggingFace library.
- Enhanced models with attention mechanisms in the decoder, improving results by 40-50% as evaluated by BLEU scores.

Seq2Seq Video Captioning

Computer Vision Deep Learning Team Project — March 2022 - June 2022

- Engineered a PyTorch-based program to generate captions for videos, enabling on-demand video summarization.
- Employed a Sequence-to-Sequence model with VGG16 video encoder combined with LSTM encoder-decoder architecture.
- Integrated attention mechanisms and word embeddings, improving performance by 50% as measured by METEOR scores.

CERTIFICATIONS

Microsoft Certified: Fundamentals

Azure Fundamentals (AZ-900) — Microsoft • June 2023

Azure AI Fundamentals (AI-900) — Microsoft • June 2023

Azure Data Fundamentals (DP-900) — Microsoft • June 2023

IBM Data Science Professional Certificate — IBM on Coursera • May 2023

SKILLS

Languages: C++, Java, Python, SQL, MySQL, NoSQL, PostgreSQL, R, Scala, HTML, CSS, JavaScript, DAX

Platforms: Github, Gitlab, Tableau, Power BI, Microsoft Office 365, Microsoft Azure, Databricks, Spark, Kubernetes, Docker, Jupyter Notebook, Notion

Libraries: PyTorch, TensorFlow, Keras, Pandas, SciPy, NumPy, Matplotlib, Plotly, Seaborn, Folium, Scikit-learn, NLTK, SQLite3