PRAKRUTHI PANAKANAHALLI SOMASHEKARAIAH

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EDUCATION

Northeastern University   Boston, MA
Master of Science in Information Systems   Expected May 2024
Relevant Coursework: Object-Oriented Design, Application Engineering Design, Database Management and Database Design, Data Science Engineering Methods, Programming Structures and Algorithms

Dayananda Sagar College of Engineering   Bengaluru, India
Bachelor of Engineering in Telecommunication Engineering   June 2020

TECHNICAL SKILLS

Programming Languages and Frameworks: Python, Java, JavaScript, Flask, Node.js, React.js
Databases: MySQL, MongoDB, DynamoDB
Platforms: Amazon Web Service (EC2, Lambda, S3), Git, MuleSoft, JIRA, Bitbucket, Docker, Kubernetes
Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Natural Language Toolkit
Domains: Machine Learning, Deep Learning, Artificial Intelligence, Data Science, Statistics, MLOps

EXPERIENCE

APISERO INC   Bangalore, India
Senior Software Engineer   September 2020 - August 2022

- Designed and developed user-friendly **Post Beyond web app** with **React.js, Node.js, and MongoDB**. Empowered efficient content distribution to employees, achieving **50%** increase in LinkedIn reach of the company.
- Developed a predictive model using machine learning algorithms by utilizing **ML frameworks** such as **scikit-learn** to assess customer creditworthiness and predict the likelihood of default, enabling more accurate risk assessment and reducing credit losses by **15%.**
- Packaged the developed credit fraud detection and credit risk assessment models into high-quality code and packages following software engineering best practices, ensuring code maintainability, reliability, and scalability.
- Implemented automated scripts using Python to extract calendar information from the users in client workspace to track events using the **Calendar API**. Increased the performance of the existing code by **40%**.
- Designed and implemented data processing pipelines to handle large volumes of data, enable efficient model training and evaluation.
- Streamlined the development and deployment process of APIs built using Flask by incorporating **DevOps** tools such as **Jenkins**, **Bitbucket** and **Azure DevOps** that accelerate delivery by **40%**.

ELLUCIAN   Bangalore, India
Machine Learning Intern   January 2020 - April 2020

- Programmed an Alexa skill to enhance student experience in getting academic information by using voice commands it restructured efficiency of getting information by **70%.**
- Achieved minimal performance degradation while effectively handling multiple users by designing and executing a high-performance Alexa interface with **Python** as backend, integrating private **RESTful APIs**, and hosting them on **AWS Lambda**.

PERSONAL PROJECTS

Stack Overflow Tag Prediction | NumPy, Pandas, Matplotlib, Scikit-learn, NLTK   January 2023 - March 2023
Fostered Logistic regression to predict tags for stack overflow questions, leveraging SGD Classifier and log loss, and obtained an F1 micro score of 0.37.

Social network Graph Link Prediction| NumPy, Pandas, Matplotlib, Scikit-learn, networkx   November 2022 - December 2022
Devised a high-accuracy predictive model for social network link prediction using featurization and RandomForestClassifier, achieving a train F1 score of 0.965 and a test F1 score of 0.924.

Text Summarization |Spacy, NLTK, Deep Learning   October 2022 - November 2022
Explored extractive techniques to extract important sentences from the input documents. Developed an advanced text summarization system using deep learning techniques, specifically an Encoder-Decoder Sequence-to-Sequence Model with LSTM architecture.

Cryptocurrency Trading Bot | Python, AWS Lambda, Amazon Alexa Skills Kit   September 2021 - November 2021
Collaborated with a team of two to develop an Alexa skill for Binance-based cryptocurrency trading using **Python SDK** offered by ASK, boosting trade accuracy by **30%** with real-time data and automated execution.

CERTIFICATION AND HONOURS

- **AWS Certified Cloud Practitioner**
- **MuleSoft Hackathon Winner** (under Finance Category) hosted on **devpost.com**
- Machine Learning Engineering for Production (MLOps) Specialization – DeepLearning.AI