AMOGH MAHADEV KOKARI

STEM OPT (Eligible 3-years)

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EDUCATION

Stevens Institute of Technology, Hoboken, NI

Expected May 2023

Master of Science in Information Systems

(GPA:3.9/4)

Relevant Coursework: Mobile Systems and Applications, Integrating IS Technology, Data Analytics and Machine Learning, Deep Learning, Management of AI, Big Data Technologies, Data Management, Human Centered Design Thinking

Recognition: Provost Masters Scholarship and Vice President of Stevens Graduate Financial Association

Davananda Sagar University, Bangalore, India

June 2019

Bachelor of Technology in Computer Science Engineering

TECHNICAL KNOWLEDGE

Programming: Python (Flask, BeautifulSoup, Nltk, Pandas, NumPy, Sklearn, PyTorch, PySpark, Keras, TF-IDF), Go, C, C++, JAVA, HTML, CSS, Database: SQL, MySQL, PostgreSQL, MongoDB, AWS S3, GCP (BigQuery)

Domain: Data Analytics, Business Analytics, Machine Learning, Web Mining, Data Science, Agile, Software Development (Backend)

Statistical Analysis: Linear Regression, Descriptive statistics, Hypothesis testing, A/B testing, t-tests, ANOVA, Correlation, chi-squared Machine Learning Algorithms: PCA, Regression, Random Forest, Neural Networks, K-NN, Clustering, Naïve Bayes

Tools: Spreadsheets (Google Sheets, MS Excel), Tableau, Looker, AWS, Databricks, REST web services, Docker, Asana, Git, Postman

PROFESSIONAL EXPERIENCE

Build Health International Beverly, MA

IT Intern

May 2022 to August 2022

- Utilized Tableau to analyze data and create visual dashboards to understand reasons behind fatalities in Haiti and identify correlation between Monkeypox and Coronavirus, leading to a better understanding of the spread of diseases
- Implemented automated Asana form-based task generation integrated with Slack, improving employee onboarding from 1 day to 1 hour
- Managed IT systems, security and data stored over Google Cloud, enabling secure collaboration between teams spread across the globe

Stevens Institute of Technology

Teaching Assistant

January 2022 to December 2022

Applied and taught introductory concepts in Python (including libraries like Pandas, NumPy, Matplotlib, Seaborn), Tableau, Data Analysis, Data Mining, Machine Learning, Business Intelligence and Data Integration through case studies in the real world.

September 2021 to May 2022

- Designed and developed Human Computer Interaction Lab's official website by collaborating with a team of researchers and developers. leveraging HTML, CSS, JavaScript, and React.js to create an intuitive user experience
- Recruited participants, set up experiments, and collected data for emotion, attention, and depression study in lab and classroom settings
- Achieved 84% accuracy on a Machine Learning model (LightGBM model autotuned with Optuna) to detect participant's anxiety, boredom and flow by extracting over 50,000 dynamic Facial Features in Inter-Vector Angles and Action Units over .5 second timeframe in **Time Series** dataset, used the results in research papers submitted to AIED and IMWUT conferences

Razorpay

Bangalore, India

Software Development Engineer

Iune 2019 to Iune 2020

- Utilizing a team-based Agile setting, Integrated PayPal, Simpl, and Jana banks' payment gateways using REST API, php, Golang, Docker that increased international payment and purchase success rates, leading to an estimated \$60,000 in monthly savings
- Built REST APIs using the Go Programming Language, Docker, and Kubernetes to ensure secure and reliable payment processing
- Implemented a Test-Driven Development (TDD) methodology to ensure code quality and reliability
- Utilized Git and GitHub to manage source code, track changes, and collaborate with the development team
- Optimized monolithic codebase to API-based Distributed Microservices, automating failure escalation and enhancing payment speed, efficiency, and risk analysis of more than 1 million payments processed daily, resulted in increased revenues and merchant base

PROJECTS

Real or Fake job posting classification using GaussianNB

September 2022 to December 2022

• Led a team of 3 to develop a **Gaussian Naive Bayes** machine learning model to **Classify and Predict** fake-real job postings based on Text Analysis of demographics and industry using Natural Language Processing (NLP), achieving an accuracy of 0.98, F1 score of 0.86, recall of 0.80, and precision of 0.94 (macro average)

Full Stack YouTube Channel Text Analysis

September 2022 to December 2022

- Developed an end-to-end Flask based Web Application that extract YouTube data (Web Scraping and Mining), clean, Preprocess and Feature Engineer, generate Word Cloud (titles, descriptions, tags) and dissect video like counts to high and low (0,1) for classification
- Implemented 7 ML classifiers (GaussianNB, LGBMClassifier, XGBClassifier, AdaBoostClassifier, LogisticRegression, GBTClassifier, NaiveBayes) and compared runtimes (Spark vs CPU) to classify user input (title and description)

Deep Learning model to Detect Emotions with Intensity using 32 Channel EEG

February to May 2022

- Led a team of 3 to leverage 32-channel EEG data for emotion detection, utilizing **Time Series** data extraction for **Exploratory Data** Analysis (EDA), and built Deep learning model with Hard Parameter Sharing between Gated Recurrent Unit (GRU), Linear, Relu Neural Network layers and Linear, SoftMax Neural Network layers using PyTorch Python module
- Achieved an accuracy of 86% in predicting the emotions with intensity

CERTIFICATIONS

AWS Certified Cloud Practitioner AWS Machine Learning Foundations, Udacity Applied Data Science with Python Specialization, University of Michigan December 2022

September 2022 to October 2022

June to July 2022