AMOGH MAHADEV KOKARI

New York Metropolitan Area
amoghsrcm@gmail.com | STEM OPT (Eligible 3-years)
github.com/amoghkokari | linkedin.com/in/amoghkokari

EDUCATION

Stevens Institute of Technology, School of Business, Hoboken, NJ — *Expected* May 2023
Master of Science in Information Systems — **(GPA:3.9/4)**
Relevant Coursework: Data Analytics and Machine Learning, Deep Learning, Management of AI, Big Data Technologies, Data Management, Consulting (HBSP Harvard ManageMentor), Project Management, Human Centered Design Thinking, Integrating IS Technology
Dayananda Sagar University, Bangalore, India — June 2019
Bachelor of Technology in Computer Science Engineering

TECHNICAL KNOWLEDGE

Programming: Python, Go, C, C++, JAVA, HTML, CSS, SQL, MySQL, PostgreSQL, AWS S3
Libraries: Flask, BeautifulSoup, Nltk, Pandas, NumPy, Sklearn, PyTorch, PySpark, Keras, LightGBM, Optuna, GCP (BigQuery)
Domain: Software Development, Machine Learning, Web Scraping, OOPS, Data Structures, Agile
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, Market-Basket Analysis
Tools: Spreadsheets (Google Sheets, MS Excel), Tableau, Looker, AWS, Databricks, REST web services, Docker, Asana, Git, Postman

EXPERIENCE

Build Health International — May 2022 to August 2022
IT Intern — **Beverly, MA**
- 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 — September 2021 to May 2022
Research Assistant — **Hoboken, NJ**
- 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, used the results in research papers submitted to AIED and IMWUT conferences

Razorpay — June 2019 to June 2020
Software Development Engineer — **Bangalore, India**
- Utilizing a team-based **agile** setting, **integrated** PayPal, Simpl, and Jana banks' payment gateways using **REST API, php, go programming language, docker** that increased international payment and purchase success rates, leading to an estimated $60,000 in monthly savings
- 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 normal**) to classify user input (title and description)

Deep Learning 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, sliding window for **exploratory data analysis (EDA)**, and **hard parameter sharing** between **Gated Recurrent Unit (GRU)** with linear and **Relu** layer for emotions and linear with **SoftMax** layer for intensity detection in **PyTorch** for **Deep learning** modeling.
- Achieved an accuracy of 86% in predicting the emotions with intensity

CERTIFICATIONS

AWS Certified Cloud Practitioner — December 2022
AWS Machine Learning Foundations, Udacity — September 2022 to October 2022
Applied Data Science with Python Specialization, University of Michigan — June to July 2022
Google Project Management Certificate, Google — June 2022