GAUTHAM VIJAYARAJ

MACHINE LEARNING - ARTIFICIAL INTELLIGENCE - DATA SCIENCE

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EDUCATION

Master of Science: Computer Science (Cybersecurity)

Arizona State University, Tempe, AZ CGPA: 3.83/4.00

Bachelor of Technology: Computer Science and Engineering

SRM Institute of Science and Technology, Kattankulathur, India

SKILLS

Programming Languages: Python, Java, JavaScript and SQL

Frameworks: NumPy, Pandas, Matplotlib, Scikit-Learn, Keras, TensorFlow, Seaborn and OpenAI **Tools:** ChatGPT, Gemini, Git, GitHub, Jupyter Notebook, Kaggle, Microsoft, Linux, AWS and Docker

Other Skills: Prompt Engineering, Data Modeling, Feature Extraction, Preprocessing, and Algorithm Optimization

Publications: One conference publication at the 3rd IEEE AIIoT 2024 (Link)

Certifications: Oracle Certified Generative AI Professional and others - https://gauthiii.github.io/#Certifications

PROFESSIONAL EXPERIENCE

Flutter Full-Stack Developer | Metfolio, London, United Kingdom

December 2022 - March 2023

- Developed and integrated predictive analytics using linear regression and data visualization features into the UI design of a Fintech application, resulting in a 20% increase in user engagement.
- Implemented ML based anomaly detection using Isolation Forest algorithms to resolve conflicts and integrated Facebook Ad SDK and HubSpot for real-time event tracking.

Assistant System Engineer | Tata Consultancy Services Limited, Chennai, India

June 2021 – November 2022

• Enhanced account security by leveraging machine learning-based security measures using Azure MFA for UK clients.

Full-Stack Developer | Freelance, Chennai, India

June 2019 - May 2021

May 2025

May 2021

CGPA: 3.33/4.00

• Deployed collaborative filtering models to enhance user personalization and recommendations for an e-commerce website, implemented data analytics dashboards, leading to a 15% increase in user engagement and sales conversions.

INTERNSHIPS

Software Developer Intern | HCLTech, Chennai, India

May 2024 - August 2024

• Gained proficiency in prompt engineering for Generative AI models, optimizing AI-driven solutions to enhance user interactions and drive innovative applications across various domains.

PROJECTS

Playlist Prediction App Using Spotify API | Data Science and ML

May 2024 - Present

• Trained a Random Forest model to predict playlists based on audio features from a custom dataset of 35,000 songs collected via the Spotify API and integrated it on a Flutter-based mobile application.

Sentiment Analysis on Twitter Datasets | Statistical Machine Learning

March 2024 - May 2024

• Implemented SVM and Logistic Regression to achieve an accuracy of 97% on sentiment analysis of 400,000 entries of tweets, while demonstrating expertise in data preprocessing, optimization, vectorization, and statistical analysis.

AI Based Fitness Tracking Application | React, Firebase and PoseNet

December 2023 - March 2024

• Created a fitness tracking website using React and integrated PoseNet to predict the accuracy of users' workouts.

Detection Process of Suspicious Activities in Social Media | Data Mining and ML August 2023 – December 2023

• Established accurate social media account classification into suspicious or non-suspicious categories, aiming to eliminate false grouping.

GPT response-based customized Chatbot App | OpenAI, Gemini and Cloud Firestore July 2023 – February 2024

• Developed an intelligent chatbot using OpenAI and Gemini API keys, integrating Cloud Firestore for efficient data storage and retrieval, which improved user query response times by 35%.

Automated Real-time Expense Tracker Application | Flutter, Firebase and ML October 2022 – November 2022

• Applied Linear Regression Model for future expense prediction based on historical weekly user expenditures.

Facial Recognition enabled Social Networking Application | Flutter, Firebase and ML August 2020 – May 2021

• Utilized TensorFlow-based FaceNet with 98.7% accuracy to assess feature similarity in user images for authentication.