Jai Vigneshwar Aiyyappan

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EDUCATION

Post Graduate Program in Applied AI Solutions Development **2024**
George Brown College • Toronto, Canada • 3.93 GPA
Coursework: Deep Learning, Applied Mathematical Concepts for Deep Learning, Full Stack Data Science Systems, Design Thinking for AI Solutions, Data Visualization Techniques, Foundation of Data Management

Bachelor of Engineering **2019**
Major in Civil Engineering • SSN College of Engineering • Chennai, India • 3.44 GPA

EXPERIENCE

Latentview Analytics
Senior Analyst **April 2023 - August 2023, Chennai, India**
- Developed regression and classification ML models, surpassing R-squared values of 90%, for a prominent US-based automotive company.
- Identified and optimized the top KPIs at each milestone, resulting in significant reductions in unit loss and warranty costs for the client.
- Collaborated with cross-functional teams to generate simulated data for a connected automotive view using Python, deploying algorithms to precisely simulate real-world scenarios on the dashboard through Tableau.

Analyst **October 2021 - March 2023, Chennai, India**
- Conducted validation of the Credit Risk Logistic model for a prominent US-based Automotive company by leveraging SAS
- Developed and delivered six Regression Models utilizing DataRobot, effectively predicting and mitigating unit losses through PRS.
- Earned a SPOT award in February 2023 for outstanding performance in project delivery.

Cognizant
Jr Product Specialist **October 2019 - October 2021, Chennai, India**.
- Maintained and monitored alerts in the production system for a Fortune 500 Insurance Company Project.
- Provided triage support for priority one and two system outages, ensuring timely resolution, and minimizing downtime.
- Developed intricate SQL statements to deliver backend solutions addressing production issues, monitoring, and reporting.
- Automated a Reconciliation report for fortnight reconciliation of claims for a particular business operations.

PROJECT

LLM-Based Q/A Bot for College Website (GeorgeBrownGPT)
- Developed an innovative Q/A Bot for the college website to enhance the experience of future and current students.
- Utilized Retrieval-Augmented Generation (RAG), Large Language Models (LLM), and Domain Adapted In-Context Learning for intelligent and context-aware responses.
- Integrated proficiency in Beautiful Soup, Hugchat, and SBERT for seamless implementation and enhanced functionality.
- Designed to efficiently answer queries related to college programs, providing students with a user-friendly and informative platform.

HR Attrition Dashboard
- Created an HR Attrition Dashboard using Python to generate synthetic data and Tableau for dynamic visualizations.
- Developed interactive visuals to monitor and analyze employee attrition rates, offering actionable insights for HR decision-makers.

Image Segmentation
- Leveraged transfer learning techniques to enhance semantic segmentation Deep Learning models on the Cityscapes dataset.
- Fine-tuned pretrained models such as deeplabv3_mobilenet_v3_large and fcn_resnet50 to effectively segment urban scenes into distinct classes.
- Explored the implementation of the U-net architecture to further improve segmentation accuracy and model versatility.

Amazon Review Insights
- Developed the Amazon Review Insights platform in collaboration to extract valuable insights from product reviews.
- Employed a Large Language Model (LLM) to identify pros and cons at key feature levels.
- Utilized zero-shot sentiment classification for sentiment analysis over time.
- Built a user-friendly web application using Flask and Docker, deployed on a cloud platform for seamless access and scalability.

Class Attendance System (GBCAttendance)
- Implemented real-time face detection and recognition using video feed integration with Haar Cascade Classifier, YOLOv8m, and CNN.
- Integrated Streamlit for a user-friendly frontend, enabling easy interaction with face detection and recognition functionalities.
- Automatically compiled attendance records into an Excel file upon class completion, streamlining attendance tracking and administrative efficiency for instructors.

CERTIFICATIONS

Professional Machine Learning Engineer **PGP in Data Science and Engineering**
Google Cloud • 2023 Great Learning (Great Lakes) • 2022

SKILLS

Languages and Tools: Python, MySQL, MongoDB, GCP, Git, Tableau, Docker, MS Office Tools, Alteryx, DB2, PowerBI , Flask , DataRobot
Skills: Computer Vision, MLOps, LLM, NLP, Deep Learning (CNN , Auto Enoders, GAN , RNN, LSTM) , RAG
Packages: TensorFlow, PyTorch Langchain Pandas , Plotly , Scikit-Learn, Seaborn