Jalluri Ajay Vamsi

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https://scholar.google.com/citations

About

Experienced **Machine Learning Engineer** proficient in crafting and implementing Data and Machine Learning model pipelines. Skilled in widely-used ML frameworks, adept at researching and designing AI models. Possesses a background in Software Development, and extensive experience in Machine Learning and Deep Learning , Generative AI projects accumulating over 2.4 years of professional expertise in the role of a Machine Learning Engineer. Demonstrated proficiency in tackling diverse problems through the application of various Machine Learning algorithms in ML projects.

Honours and Certifications

- ⭐ AWS Machine Learning Specialty Certification [Amazon Web Services] — March 2024
- ⭐ Spot Award [Deloitte USI] — February 2024
- ⭐ Spot Award and Squad of the Quarter [Deloitte USI] — December 2023
- ⭐ Deep Learning Specialization - DeepLearning.AI [Coursera] — June 2020

Work Experience

Machine Learning Engineer — July 2022 – Present
HashedIn by Deloitte (Offices of the USI) — *Hyderabad, IN*

Potential Complaince Risk Classification — Feb 2023 – Present

- Engaged in a Gen AI project for a life sciences client, focusing on enhancing compliance decisions. Tasked with the design, development, scaling, and ongoing maintenance of the entire backend, as well as creating AI models for accurate risk assessments.
- Conducted meticulous prompt engineering to extract the rationales for potential risks or non-potential risks, along with the associated predicted labels.
- Utilized OPEN API LLMs to implement a RAG-based approach for identifying potential risks in Emails ,Teams messages and their attachments.
- Employed BERT model for email classification and conducted a comparative analysis of the results with the RAG approach.
- Integrated BERT model for predictions and OPEN API LLM (GPT-3.5 Turbo) for reasoning, deploying the solution using FastAPI, which achieved a recall increment of 3 percent compared to the existing solution, marking it as a significant achievement.
- Transformed ECS FastAPI implementation into a Step Functions-based architecture with Glue jobs to enhance processing efficiency and optimize time utilization.
- **Skills Include** : NLP , Machine Learning , Deep Learning , Generative AI , LLM's , Tensorflow , AWS - S3 , Lambda , Step Function , Glue Job , SageMaker.

Customer Experience MVP — July 2022 - Jan 2023

- Conceptualized, Architected, Developed Al-based platform (MVP) using Facial recognition and advance machine learning algorithms that provides unique experience to the employees and recommends latest articles , news feeds according to theirs skills and interest.

- Headed MVP development phase from UI/UX designing, front-end, backend development to deployment.
- Designed a REST API with Django Rest Framework to handle user authentication, authorization, database functionalities, and notifications. Deployed the Application on AWS.
- **Skills Include** : Computer Vision , Python, Django Rest API, Git, MySQL, Agile, Excel ,AWS.

Machine Learning Intern
Feb 2022 – June 2022

HashedIn by Deloitte (Offices of the USI)   *Hyderabad, IN*

- Acquired proficiency in various frameworks within the four tracks of HashedIn University (HU) [Python, Data Engineering, Data Science, Power BI] and successfully completed all track requirements.
- **Tools and Technologies** : Pyspark, Fast API, Django Rest Frame work, AWS, Power BI

TECHNICAL SKILLS

Languages: Python, R Language, SQL
Frameworks: TensorFlow, scikit-learn, OpenCV, Langchain
Developer Tools: AWS, Git, Docker, Linux Shell Scripting, VS Code, PyCharm
Libraries: Keras, Pandas, NumPy, Matplotlib, Scikit-Learn, Spacy, NLTK, Flask, Fast API
Systems: Machine Learning Model Optimization, API Development, Data Analysis and Visualization, Predictive Modeling

EDUCATION

BML Munjal University
Haryana IN

Bachelor of Engineering, Computer Science   *June 2018 – June 2022*