

RAJA ABHISHEK VALE

Hyderabad, India

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Education

VR Siddhartha Engineering College

Bachelor of Engineering in Computer Science and Engineering

Aug. 2018 – May 2022

Vijayawada, India

Experience

Deloitte Tax Services India Private Limited

April 2023 – Till Date

Software Engineer I

Hyderabad, India

- Worked on a Python API for a ChatBot application, Calculated the embeddings, and creating the FAISS index for efficient document retrieval and search functionality.
- Co-ordinated the development of python API for a synthetic data generator application using GPT, focusing on preprocessing and structuring input while managing the GPT usage to ensure accurate data generation.
- Facilitated GEN AI initiatives, including developing an application to extract data from files and convert into an excel template.
- Engaged in research and development on multiple libraries while comparing various GPT models incorporated across multiple tax applications.
- Guided two interns in rapidly, thoroughly developing GENAI use cases and testing.

August 2022 – March 2023

Business Technology Analyst

Hyderabad, India

- Extracted unstructured footnotes in K-1 tax form and formatted into an excel template as part of a project.
- Primarily worked on C#, python, SQL, and .Net Framework in the project.
- Developed an unsupervised technique for clustering K-1 footnote images using the resNet-50 pre-trained model to extract features from the images.
- Conducted data drift analysis for text classification data as part of project responsibilities.
- Conducted research and development of libraries to identify and extract data from wide range of tabular and non tabular structures sourced from both native or OCR files.

Projects

Plant leaf detection using ResNet50 | Python, Jupyter notebook, Android studio

March 2022

- Developed a classification algorithm achieving an accuracy rate of 84% in identifying and labeling plant species based on images plant leaves.
- Trained a ResNet50 model using a dataset of 2200 images comprising our own photos of plant leaves across eight distinct classes.
- Created a simple UI using Android Studio to interact with the tool.
- Connected with real users and demonstrated the application usage to leverage algorithm capabilities and enhance user understanding and engagement.

EasyType | HTML/CSS, JS

November 2021

- Created a user friendly web application for typing practice, featuring an aesthetically pleasant interface.
- Implemented React JS to generate random paragraphs and incorporate effects using the Act-On scroll library and Typewriter package.

Technical Skills

Languages: Python, C#, SQL, HTML/CSS, JavaScript, ASP.NET(WebAPI), Flask

Developer Tools: Visual Studio, Git, MSSQL, VS Code, Jupyter Notebook, Postman, Azure DevOps

Additional Technologies: Numpy, Pandas, Scikit Learn, Azure, GEN AI, OPEN AI, Vertex AI

Leadership / Extracurricular

- Successfully completed Deloitte certified AI Explorer program.
- Served as an onboarding advisor at Deloitte, assisted newly hired staff members and ensuring a smooth transition into the company.
- Received Deloitte's Applause award and Spot award in recognition of outstanding performance and accomplishments.
- Took leadership in Elite club and served as an Ambassador for 2 years in college.
- Actively participated as an NSS volunteer.