AYUSHMAAN DAS

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OBJECTIVE

Passionate and dedicated undergraduate specializing in Artificial Intelligence and Machine Learning, with a robust skill set spanning various domains which are gaining popularity and serves the demands of the modern world. Fueled by a relentless drive for excellence in Machine Learning Engineering and Data Science, I have successfully executed a multitude of projects across these disciplines. Actively engaged in the publication and patenting of my research, showcasing a steadfast dedication to advancing knowledge and fostering innovation in these cutting-edge fields. Also well versed with working in a team environment with proper coordination and communication

EXPERIENCE

Machine Learning Engineer and Python Developer | Recruit NXT
FEBRUARY 2023 – NOVEMBER 2023

Python Developer Intern, Worked on domains like - Machine Learning, Natural Language Processing (NLP), Computer Vision and Web Scrapping. Automation and Debugging of existing codes. Software testing, containerization using Docker and deployment and testing of applications.

EDUCATION

B. Tech CSE (Artificial Intelligence and Machine Learning)
Sri Ramachandra Faculty of Engineering and Technology, SRIHER, Chennai (2021 – 2025)

Currently in sixth semester of the degree, having a current CGPA of 9.88 with multiple achievements and awards. Worked on multiple projects, patented workflows and actively participated in various college activities, also having won numerous awards.

SKILLS

- Machine Learning
- Deep Learning
- Natural Language Processing (NLP)
- Data Analytics and Visualization
- Computer Vision
- Artificial Intelligence
- Web Development
- Database Management
- Automation and Testing

- Programming Languages – Python (95%), C (60%), C++ (60%), Java (80%), JavaScript (60%), R (50%)
- Database Concepts – MySQL, Postgres SQL, Mongo DB
- Web Frameworks – Flask, Streamlit, FastAPI, Gradio, ExpressJS, Angular
- Tools and technologies – Tensorflow, Keras, Pytorch, Sklearn, OpenCV, Hugging Face, SpaCy
- Other technologies – Tableau , Power BI, Docker, Git, Postman, Linux, Amazon Web Services (AWS)
- Ability to design custom models, neural networks and application architectures as per the user needs.

PROJECTS

- *Named Entity Recognition from Resumes* – This is a FastAPI and Gradio based application which aims at automating the process of hiring. The application aims at recognizing essential entities and information from the resumes. A custom model was built using SpaCy after preparing data by manually tagging resume texts using Docanno. Also, MongoDB cloud has been integrated to store scanned data and implement applicant-search feature with respect to skills, knowledge, etc.
- *Resume Summarization* – Summarizing long resumes and applications using custom built models and existing models and transformers from hugging face. This will help HRs to easily parse resumes. Also utilizing various open source chatbot models and LLMs in order to achieve the same.
- *Spotify Recommendation Engine* – Music suggestions for users based either on a custom-built algorithm from song input or emotion detection from face through live camera feed. Emotion Detection deep learning model architecture was custom designed using Keras. Feature to connect to Spotify API to add playlist to user account. Also, basic LSTM model was generated for lyrics generation.
- *ANPR with Live Dashboard and Database* – The aim was to solve the issues of vehicular traffic data management within campuses or any enclosed area. The Flask Web Application has the features to detect vehicular number plates from Images or Videos using TensorFlow's Object Detection Model. The detected data is stored in Google Sheets with the timestamp. In addition to this, there is a PowerBI dashboard that fetches live data from Sheets and visualizes the fetched data.
- *Twitter Based Highway Traffic Alerts* – Generating traffic information system by fetching tweets from Twitter API, applying various ML techniques for tweet classification. The Machine-Learning project comprises of a web-application that enables the users to fetch traffic-related tweets from Twitter API. The tweets can be downloaded and multiple algorithms have been used to increase the efficiency
- *Football season analytics using Tableau* – A Tableau dashboard embedded in a Flask Web Application with responsive visualizations and player search features. The dashboard has multiple filters and stats can be visualized with respect to players, teams or even regions and zones.
- Other Projects – *Portfolio Website* and *EazyPay ePayment* (Frontend Applications using JavaScript), *Human Activity Recognizer App* (using pre-trained ONNX model)

ACHIEVEMENTS

- *Founder Chancellor Cash Award (SRIHER)* – For excellent academic performance and securing highest CGPA among the department.
- *Research Day Winner* – Presented a project idea which was chosen as the best among all the participants.
- Multiple awards in college level competitions (technical and non-technical).

LANGUAGES KNOWN

- Bengali (Native, Bilingual, Read and Write)
- Hindi (Bilingual, Conversational, Read and Write)
- English (Conversational, Read and Write)

(AYUSHMAAN DAS)