Midhun Prahash SR

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Education

B.Tech - Artificial Intelligence & Data Science,   *Expected - 2027*
St.Joseph's Institute of Technology   *CGPA:8.4*

High School ,
Excel Central School   *HSC : 89 %*

Work Experience

Orion Governance   *June 2025-July 2025*
Training Intern

Developed a Fuzzy String Matching-integrated Random Forest Classifier using **Scikit-learn** and **Pandas**, achieving **89%** accuracy in identifying unauthorized employee usernames for enhanced security.

Tamil Nadu Police   *April 2025-June 2025*
Project Intern

- Engineered a data pipeline for crime analytics, leveraging **NER** to structure raw textual records.Will work on **Eclat** and **Apriori** Association Rule Learning to identify and visualize critical event linkages, providing actionable insights into crime relationships.

Ai & Robotics Lab,Excel Group of Schools   *December 2024-January 2025*
Project Intern

- Designed and demonstrated a humanoid robot integrated with the ChatGPT API, enabling real-time human interaction and dynamic query resolution using advanced NLP techniques.

Projects

Username matcher - (Fuzzy string matching & RF-Classifier) | Git Repo

- Developed a **Fuzzy** String Matching-integrated **Random Forest Classifier** using **Scikit-learn** and **Pandas**, achieving **89%** accuracy in identifying unauthorized employee usernames for enhanced security.

StudentAi - (RAG & LLM) | Git Repo

- Developed an AI-powered Retrieval Augmented Generation **(RAG)** system for enhanced educational content delivery.Integrated **Pytesseract (OCR)** for textbook ingestion, **FAISS** VectorDB for efficient retrieval, and **Sentence Transformers** for semantic embedding.Leveraged **OpenAI's LLM** to provide comprehensive concept explanations (what?, why?, how?) and generate application-oriented questions.

Ai Integrated Smart Mirror- (CV+Detectron) | Git Repo

- Innovated an AI-driven smart mirror for real-time hair density monitoring, featuring **85%** accurate **CNN-based detection.**Provided valuable monthly hair density insights via computer vision, boosting user engagement in personal health metrics.

Review Analyser- (NLTK & VADER) | Git Repo

- Automated web scraping of Flipkart product reviews using **Selenium**.Applied **NLTK** and sentiment analysis libraries like **TextBlob** and **Vader** to classify reviews as positive, negative, or neutral.Generated intuitive visual summaries of sentiment distribution using **Matplotlib,Seaborne**

GitLab Branch Diff. Tool- (APIs + Python + HTML) | Git Repo

- Engineered a GitLab branch diff. tool to significantly streamline developer workflows for branch comparison and code integration.Provided clear, real-time **diffs** of **divergent commits** across multiple branches, enhancing code review efficiency and reducing **merge conflicts.**

Skills

Programming Languages: Python, Java, SQL
Data Science: RF-Classifier, Regressor, Data Visualization, Machine Learning,
Technologies: Computer Vision, Basics of LLMs, NLP, APIs, Langchain, RAG,Vector DBs
Tools: Pandas, NumPy, Matplotlib, Scikit-learn,Seaborne

Achievements

CYBER HACKATHON -2025 - Runner-Up (Top 2 out of 800+ Teams) at Thoothukudi District Police Hackathon