Deven

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WORK EXPERIENCE

Skyroot Aerospace, Hyderabad, Onsite   Jun 2024 - Aug 2024
- Analyzed and visualized **Pulse Code Modulation (PCM)** data from all stage DAQs of the **VIKRAM 1 launch vehicle** using Python and Jupyter Notebook to ensure accurate data interpretation and optimal system performances
- Generated the **PCM separation map** from rocket 4 stages DAQ's data. Engineered a Python algorithm to streamline telemetry processing, enhancing the map within the launch vehicle's software
- **Tech Stack**: Python, Jupyter Notebook, LDRA, MS excel

Machine Learning Intern, *Suvidha Mandal Foundation*, Remote   Jan 2024 - Feb 2024
- Developed a robust **dataset of 1000+ entries**, establishing foundational groundwork for subsequent machine learning Milestones
- Precisely crafted and fine-tuned a **PEGASUS-based text summarization model**, rigorously tested on dataset for seamless deployment and optimized real-world performance
- **Tech Stack:** Transformers, MS Excel, Machine Learning, Hugging face Models, PyTorch, Jupyter Notebook, NumPy, Pandas, ROUGE Metric

SKILLS

Technical Skills: Python, RAG, SQL, Machine Learning, C++, Java, JavaScript, TypeScript, Redux, ReactJS, NextJS, Data Structures and Algorithm, Transformers
Developer Tools: Anaconda , Jupyter Notebook , Pycharm, Google Collab, Langsmith, LDRA, Git, Bit bucket

EDUCATION

B.Tech in Computer Science & Engineering, Maharaja Agrasen Institute of Technology
2022 – 2026 · CGPA: 8.00

PROJECTS

Dynamic Web Query Agent ([Github](#))
- Tech Stack: **LangGraph, Playwright, cURL, LangSmith, ChromaDB, Gemini 2.5 flash/lite, Milvus, text-embedding-3-large, FastAPI, Python Microservice, nodejs**
- Employs a **LangGraph agent** for interactive web scenarios via a cURL + tools workflow, complemented by a RAG model optimized for high-capacity (50K tokens) contexts
- Utilizes a **Node.js API entry point**, a **Python microservice**, and a **FastAPI backend**, with **Dockerized Milvus** and **ChromaDB** serving as primary vector stores

AI Financer - Smart Financial Management System ([Github](#))
- Tech Stack: **React 18, TypeScript, Firebase (Authentication/Database), GROQ AI, Chart.js, Tailwind CSS, Framer Motion, EmailJS**
- The solution provides a secure financial dashboard with **Firebase backend** for real-time tracking, multi-method authentication, and a **photo-upload feature** that automatically logs and adds expenses
- The application integrates the **GROQ AI API** for automated financial forecasting, offering interactive **Chart.js visualizations**, **EmailJS** communication, and **Excel export** capabilities to streamline data management

Bulldozer Price Regression ([Github](#))
- Tech Stack: **Python, Pandas, NumPy, Scikit-Learn (RandomForestRegressor), Matplotlib, Seaborn, Jupyter Notebook**
- Built a **Random Forest Regression** model processing 400,000+ entries across 53 features to resolve data quality issues and predict auction prices with 98.69% accuracy for data-driven stakeholder communication

ACHIEVEMENTS AND RESPONSIBILITY

- Certified in C++ with 90+ scores; **5-Star** SQL HackerRank achiever
- Secured **4th position** and received the Dark Horses Award at Bajaj Finserv HackRX 6.0 Hackathon