ABHIRAJ ARYA

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Professional Profile

Analytical and product-oriented Computer Science student with a focus on **Generative AI**, **Machine Learning**, and intelligent systems. Skilled in developing scalable AI tools using **Python**, **C++**, **SQL**, **GPT-4**, and **NLP** libraries like **NLTK** to create innovative AI-powered solutions. Demonstrated ability to analyze large-scale unstructured data and deliver actionable insights through automation and model deployment. Experienced in managing full project lifecycles, collaborating in team settings, and continuously evolving technical proficiency in AI/ML. Currently deepening skills in **Generative AI** and Python-based AI systems to build impactful real-world applications. Delivered business insights and built scalable ML and Generative AI solutions impacting over 1000 users.

PROJECT EXPERIENCE

AI Developer — **Remote**
Generative PDF Analyzer — *February 2025 – April 2025*

- Spearheaded the development of a GenAI-driven PDF analysis tool using **Python**, **GPT-4**, and **OpenAI API**.
- Engineered a robust NLP pipeline via **NLTK** to extract, summarize, and **validate data**, ensuring **production data integrity** across 100+ PDFs.
- Boosted document processing throughput by **40%**, reducing manual review time significantly.
- Enriched expertise in **text analytics**, **prompt engineering**, and **model fine-tuning**.

ML Engineer — **Remote**
Spam Detection System — *September 2024 - January 2025*

- Designed a robust SMS spam classification system achieving **95.6% accuracy** using **Scikit-learn** and **Python**.
- Led **data cleaning and feature engineering** on 5K+ messages using **Pandas** and **SQL** to improve model generalization.
- Visualized key performance metrics using **Tableau** to aid stakeholder analysis.
- Conducted iterative testing and validation, improving F1-score by ~**10%** over baseline.
- Tools used: **VS Code**, **PyCharm**, **Pandas**, **SQL, Tableau, Matplotlib**.

Winter Intern — **Remote**
India Space Lab — *December 2024 - January 2025*

- Immersed in space innovation, mastering **drone systems**, **Can-Sat**, and **CubeSat** in a 20-hour intensive.
- Built functional models for mini satellites, strengthening understanding of **embedded systems** and **aerospace logic**.
- Applied real-time simulation techniques in a project-based learning environment.

GCP Cloud Intern — **Remote**
DC InfoTech Pvt. Ltd. — *July 2025 - Present*

- Optimized deployment pipelines and enhanced system scalability by **20%** via GCP.
- Automated containerized builds, accelerating module deployment by **30%**.

CERTIFICATIONS

- Python Essential
- Fundamentals of AI/ML
- Programming in JAVA
- Introduction to Machine Learning – *NPTEL, IIT via SWAYAM*

EDUCATION

Vellore Institute of Technology — **September 2023 - June 2027**
B. Tech, Computer Science Engineering — *CGPA: 8.41*

LEADERSHIP EXPERIENCE

Null VIT Bhopal Student Chapter — **Bhopal, India**
Secretary — *June 2025 - Present*

- Led all club activities, increasing member participation by 30% and launching cybersecurity education programs that enhanced practical knowledge for over 100 students.
- Mentored 20+ new members, guiding them through hands-on cybersecurity projects that improved their technical proficiency by 40%.