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Puducherry, India

Abiyshek Sathianarayanan

Technical Skills

- **Programming Languages:** Python, C, JAVA
- **Frameworks and Libraries:** NumPy, Pandas, Scikit-learn, OpenCV, PyTorch
- **AI and ML:** Generative AI, LLaMA, NLP
- **Cloud Platforms:** Google Colab, GCP
- **Other Tools:** Advanced Prompt Engineering, LLM, Computer Vision
- **DSA :** Linked list, Stack, queue, Graph, Tree
- MERNS
- Quantum computing

Education

Degree: Bachelor of Technology in Information Technology, Pondicherry University (pursuing)

Sri Manakula Vinayagar Engineering College, Puducherry
Batch: 2023-2027

- **CGPA:** 7.94

10th : Kendriya Vidyalaya no.2, Puducherry.

- Percentage: 77%

12th : Kendriya Vidyalaya no.2, Puducherry.

- Percentage: 72%

Websites, Portfolios, and Profiles

- LinkedIn
- Github

Activities

- Conducted over 5 seminars focusing on AI, prompt engineering, and tools for 500+ students.
- Trained students on generative AI.

Summary

I am an AI/ML engineer skilled in developing intelligent, data-driven systems using algorithms like regression, decision trees, and neural networks. I specialize in Generative AI, building chatbots, content generators, and automation tools. My work includes Post-Quantum Cryptography (PQC) research, integrating biometrics with cryptographic algorithms for secure systems. Proficient in Python, C, Java, and tools such as Unity, Flask, ADK, N8N, and Streamlit. Strong in public speaking, leadership, and effective communication, with experience conducting seminars and training sessions on AI and emerging technologies.

Experience

Rinex – AI Intern
01/2024 – 04/2024
Flaunch – Generative AI Intern
09/2024 – 10/2024
Toast2Host-Software developer Intern
Since- 05/2025

Certifications and Achievements

- **2X** Hackathon winner
- **Advanced Prompt** Engineering (IBM)
- **Generative AI Specialization** (Flaunch)
- AI Model Development and Optimization
- IBM Quantum computing basics

Significant Projects

- **EVASAFE:** EVASAFE is an AI-powered women's safety system built using **Python, OpenCV, TensorFlow, and CCTV integration**. It leverages **computer vision and machine learning** to detect suspicious activities in real time and alert authorities, enhancing public safety through automated threat recognition. It ensures 24/7 intelligent surveillance and can be integrated with city security systems for large-scale deployment.
- **Machine Learning for graph:** Developed a **Machine Learning for Graphs** model using **Graph Neural Networks (GNNs)** to analyze brain connectivity patterns, classify autism spectrum data, and extract key neural interaction insights using **Python, PyTorch, and NetworkX**. The project focused on constructing brain graphs from fMRI data, applying feature extraction, and training deep graph models to detect connectivity irregularities. It helps understand complex brain relationships, improves diagnostic accuracy, and supports neuroscience research through graph-based pattern learning and visualization.
- **Smart Attendance system :** Developed a **Smart Attendance System** using **Python, OpenCV, and Face Recognition** to automate attendance tracking through CCTV feeds, generating real-time reports and sending absence alerts to managers for efficient workforce monitoring. The system improves accuracy, reduces manual effort, and supports instant data synchronization across departments.