Akshat Srivastava

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LinkedIn | Github | Leetcode

EDUCATION

St. Joseph's College Prayagraj, India
Class X Percentage (94%)

St. Joseph's College Prayagraj, India
Class XII Percentage (82%)

Vellore Institute of Technology Bhopal, India
Computer Science and Engineering; GPA: 8.81

SKILLS SUMMARY

- **Languages**: Python, C++, JAVA, HTML, CSS, JavaScript
- **Libraries & Frameworks**: NumPy, Flask, MATLAB
- **Databases**: MongoDB, MySQL
- **Tools**: Git, Github, MS Office Suite, Power BI
- **Platforms**: Visual Studio Code, BlueJ, Vercel, Netlify

RELEVANT EXPERIENCE

Open-Source Contributor - GirlScript Summer of Code (GSSOC) **May 2024 – Aug 2024**

- Enhanced open-source projects by resolving complex issues and deploying new features, boosting code efficiency by 25%.
- Orchestrated a global team of 15 open-source contributors to optimize a cloud-based data processing pipeline, achieving a 40% reduction in average latency and enhanced processing speeds.

HEALTH HACK- John Hopkins & VIT **March 2025**

- Engineered an AI-based predictive healthcare system within a cross-functional team, slashing patient diagnosis time by 30%
- Conceptualized and pitched 3 groundbreaking solutions to industry leaders at a tech conference, earning positive feedback; solutions tackled critical challenges in AI ethics and data privacy.

Network Coding for Efficient Data Transmission in Covid-19 Genomic Research: **March 2025**

- This paper got published at "2025 International Conference on Intelligent Control, Computing and Communications (IC3) at IEEE
- Implemented network coding techniques to enhance data transmission efficiency in protein folding simulations, a consistent 50% improvement in throughput under high packet loss conditions (10%–30%) compared to traditional methods.

PROJECTS

Sustain Hub – Sustainable Environment and Monitoring | LINK **August 2024**

- Built a platform connecting 10,000+ users with government for sustainability initiatives.
- Enabled real-time reporting, reducing response time to environmental issues by 50%..
- Simplified green initiative applications, boosting citizen participation by 40%.

JeevanChakra - Personalized Healthcare Web App | LINK **March 2025**

- Developed a full-stack healthcare solution integrating AI-driven medical analysis, increasing self-diagnosis accuracy by 45%.
- Implemented a multi-channel reminder system
- Added a voice-enabled AI chatbot, improving diagnostic speed by 30%.

EduStack - AI-driven Course Generator | LINK **April 2025**

- AI-powered platform personalizes coding courses based on user preferences, enhancing learning efficiency.
- Generates tailored course materials with Gemini AI, integrating relevant YouTube videos and notes.
- Allows customization of difficulty level, chapter count, and study hours for flexible learning.

CERTIFICATES

Python Essentials, VITYARTHI **May 2023**

- Certified in Python programming, data structures.

Matlab Onramp **July 2023**

- Learned the basics of MATLAB, including matrix operations and data visualization

Fundamentals of AI and ML, VITYARTHI **March 2024**

- Learned core AI/ML concepts, model building, and real-world applications.
- Acquired expertise in procedural programming paradigms and associated logical concepts, enhancing capabilities.