Divyank Jain Singhvi

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Education

Dayananda Sagar University, Bangalore **July 2025**
Bachelor of Technology in Computer Science and Engineering *GPA: 8.56/10*

Technical Skills

Languages: Python, C, JavaScript, VBA, Arduino
Frameworks/Tools: Flask, Django REST, Nextpy, React.js, Tailwind CSS, Bootstrap, Firebase
Concepts: Data Structures & Algorithms, OOP, Operating Systems, DBMS, Machine Learning, Deep Learning
Other: Git/GitHub, Automation, EXE Packaging, XML Parsing, Polarion ALM, SVN

Experience

Automation Test Engineer Intern – Alstom **Aug 2024 – Jan 2025**
Python Automation Developer *Bangalore, India*

- Built Python automation scripts for 10+ projects and 16 scenarios, streamlining system testing.
- Developed tools to parse XML logs and analyze Wireshark packets, generating automated reports.
- Packaged Python scripts into cross-platform EXEs for wider team adoption.
- **Impact:** Reduced log analysis and reporting time from 2 months to 3–4 days.

Graduate Engineer Trainee – Titagarh Rail Systems **Jul 2025 – Present**
Software Engineer – Automation *Bangalore, India*

- Automated Excel/Word workflows (brake, heat load, and mix-air calculations) using Python & VBA, reducing manual work by 70%.
- Built VBA/Python hybrid tools for customer-ready report generation.
- Created MATLAB scripts to simulate driver desk functionality for embedded systems testing.
- Implemented document automation pipelines (Excel → Word → Polarion), standardizing ICD/ERTS creation.
- Presented cost and functionality analysis of SVN server setup for internal use.

Projects

Smart Mining Helmet – IoT + Python **Feb 2024 – Mar 2024**

- Developed IoT helmet with GPS, DHT11, MQ-2 sensors for real-time worker monitoring.
- Used Python for cloud updates (1 sec interval) and Folium for live mapping.
- Built predictive model with ReLU + Softmax for hazard detection.

GenAI – Language Translation Transformer **Jan 2024 – Current**

- Implemented transformer-based architecture for low-bias language translation.
- Achieved 81.27% accuracy with 1M parameters, reducing training bias by 13%.
- Decreased training time to 1 day while improving accuracy.

Certificates

Professional Certifications

- AWS Generative AI Certificate & AWS Conference Participation
- Udemy – Python Programming (Beginner & Intermediate), Public Speaking
- Hackathon Participation – Smart Mining Helmet Project