SOMESH S PATIL

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EDUCATION

10th Grade — Apr 2019 – Apr 2020
Sri Krishna International School,CISE, Bangalore
Score: 92.5%

12th / Pre-University Course (PUC) — May 2020 – May 2022
P.E.S College, Bangalore
Score: 95.4%

B.E. in Computer Science and Engineering — Aug 2022 – Present
JSS Academy of Technical Education, Bangalore
CGPA: 8.6

SKILLS

Languages:	Python, Java, C, HTML, CSS, JavaScript
Core Concepts:	Data Structures and Algorithms, Machine Learning, DBMS, OS, Computer Networks
Frameworks & Libraries:	NumPy, OpenCV, YOLOv3, TensorFlow, Scikit-learn
Platforms & IDEs:	Jupyter Notebook, Visual Studio Code
Tools:	Git, MySQL, Power BI
Soft Skills:	Problem Solving, Team Collaboration, Effective Communication, Analytical Thinking

PROJECTS

Smart Traffic Management System — Nov 2024 - Dec 2024
- Developed a real-time vehicle detection and counting system using YOLOv3.
- Integrated OpenCV and deep learning to dynamically manage signal durations based on congestion.
- Enhanced traffic flow by applying intelligent decision-making logic using computer vision.

AI-Powered Health Chatbot for Rural Healthcare — Mar 2025 - Apr 2025
-Developed an AI-powered multilingual health chatbot using NLP and ML to provide symptom analysis, telemedicine referrals, and voice/SMS support for rural populations.
-Ensured HIPAA/GDPR compliance with WHO/CDC-trained models and collaborated with NGOs to deploy solutions for maternal/child health and chronic disease management.

Healthcare Data Security using Federated Learning & Blockchain — Jan 2025 - Apr 2025
-Developed a privacy-preserving healthcare AI system using Federated Learning to train models on decentralized data and Blockchain for secure, tamper-proof record-keeping.
-Ensured HIPAA/GDPR compliance through data anonymization and secure aggregation while benchmarking performance against centralized systems for improved privacy & scalability.

CERTIFICATIONS

Machine Learning Specialization — Mar 2025 – Apr 2025
Stanford University — DeepLearning.AI
- Supervised/unsupervised learning, recommender systems, reinforcement learning.
- Applied machine learning models to real-world problems using industry-standard best practices.

Python for Data Science, AI & Development — Jun 2024 - Jul 2024
IBM
- Gained practical experience with Python for data science, focusing on core programming concepts and OOP.
- Used Pandas, NumPy, and Beautiful Soup for data analysis and web scraping in Jupyter Notebooks.

Foundations of Cybersecurity — Apr 2024 – Jul 2024
Google
- Covered CISSP's eight domains, security frameworks, and entry-level analyst responsibilities.
- Analyzed the impact of cyberattacks on organizations and the evolution of the cybersecurity field.

Databases and SQL for Data Science with MySQL — sep 2024 – Nov 2024
-Gained hands-on experience with MySQL for data analysis and management tasks.
- earned to write and optimize SQL queries for data extraction, manipulation, and reporting.