

Jayasuryan Mutyala

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LeetCode: <https://leetcode.com/u/user2092r/>

GitHub: <https://github.com/Jayasuryan0821>

EDUCATION

- **Manipal Institute of Technology** Manipal, India
Pursued Bachelors of Technology in Computer Science and Engineering (AI, ML) 2021 – 2025
- **Johnson IB World School** Hyderabad, India
Pursued International Baccalaureate Diploma Program 2017 – 2019
- **Global Indian International School** Singapore
Pursued IGCSE 2015 – 2017

WORK EXPERIENCE

- **Shivansh Solutions Asia** Hong Kong
Machine Learning Intern May 2024 - July 2024
 - **Tensorflow:** Leveraged deep learning algorithms to optimize algo-trading strategies and automated trade decisions for maximum profit potential.

PROJECTS

- **Stock Movement Prediction**
Implemented a three-level moving average strategy and compared supervised learning models to optimize stock trading decisions.
- **Breast Cancer Detection**
Developed a CNN model achieving 81 percent accuracy in classifying breast MRI scans using Transfer Learning with ResNet-18.
- **Crime Detection Analysis**
Analyzed and clustered crime data in Los Angeles using PySpark's framework. Applied KMeans, and KModes Clustering to identify hotspots and optimize police station placement.
- **Chemical Bond Detection**
Developed a machine learning model using OpenCV to classify hand-drawn chemical structures based on bond length, type, and molecular category.

EXTRACURRICULARS

- **AppLab Hackathon** Manipal, India
Developed a mental health aid website with an integrated OpenAI chatbot, achieving top-10 placement in a competition.
- **Cisco Hackathon** Manipal, India
Implemented a Prophet-based sales forecasting model to provide actionable insights for business decision-making.
- **National Service** Singapore, 2019 – 2021
Served as a combat medic in the Singapore Armed Forces (SAF).

PROGRAMMING SKILLS

- **Languages:** Python, Java, C, SQL, HTML, CSS, JavaScript
- **Technologies:** Numpy, Pandas, Matplotlib, Scikit-learn, PyTorch, Tensorflow, PySpark, OpenCV