

Jayasuryan Mutyala

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

EDUCATION

- **Manipal Institute of Technology** Manipal, India
Bachelors Of Technology in Computer Science and Engineering (AI,ML) 2021 – 2025
 - **Related Coursework:** Data Structures, Object Oriented Programming in Java, Database Management Systems, Operating Systems, Machine Learning, Deep Learning, Big Data Analytics, Computer Vision
- **Johnson IB World School** Hyderabad, India
Pursued International Baccalaureate Diploma Programme 2017 – 2019
- **Global Indian International School** Singapore
Pursued IGCSE 2015 – 2017

WORK EXPERIENCE

- **Shivansh Solutions Asia** Hong Kong
Internship, GitHub May 2024 – July 2024
 - **Software Engineering Intern:** Developed a trading algorithm with price-action concepts and support-resistance lines, achieving a 15% return and 62.5% win rate. Automated stock trades with KiteConnect API, boosting efficiency by 20% and Sharpe ratio to 0.75

PROJECTS

- **Stock Movement Prediction (Python, Pandas, Numpy, Matplotlib , Scikit-Learn)**
GitHub
 - Performed comparative analysis of Logistic Regression, SVM, and Decision Tree models with a three-level moving average strategy, achieving a 12% increase in stock return profitability.
- **Breast Cancer Detection (Python, Pandas, Numpy, Matplotlib , Scikit-Learn, PyTorch)**
GitHub
 - Engineered a Convolutional Neural Network model using Transfer Learning with ResNet-18 to classify breast MRI scans, achieving an 81% classification accuracy, a 10% improvement over previous benchmarks
- **Crime Detection Analysis (Python, Pandas, Numpy, Scikit-Learn, PySpark)**
GitHub
 - Analyzed and clustered Los Angeles crime data using PySpark, applied KMeans and KModes to provide insights into the crime hotspots and optimizing police stations placement.

EXTRACURRICULARS

- **AppLab Hackathon (Python, HTML, CSS, JavaScript, OpenAI API)** Manipal, India
GitHub 2023
 - Conceptualized and developed an innovative mental health aid platform integrated with OpenAI API, securing a top-10 placement among 50+ participants in the competition
- **National Service** Singapore
Combat Medic, 6th Singapore Infantry Regiment, Singapore Armed Forces 2019 – 2021
 - Delivered medical coverage during wartime simulation exercises and National Day Parade 2020; participated in COVID-19 vaccination operations and excelled as a Battalion Casualty Station medic.

PROGRAMMING SKILLS

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