

Jayasuryan Mutyala

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EDUCATION

Manipal Institute of Technology, Manipal, India (2021-2025)

- Bachelor of Engineering in Computer Science & Engineering (AI&ML), July 2025

Johnson IB World School, Hyderabad, India (2017-2019)

- Pursued International Baccalaureate Diploma Program (2017-2019)

Global Indian International School, Singapore (2007-2017)

- Pursued IGCSE (2015-2017)

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% 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.

Social Media WebApp (HTML, CSS, JavaScript and Django)

- Built a basic Instagram-like web application with user authentication, content sharing, and social networking features using HTML, CSS, JavaScript, and Django.

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 (2023), Manipal Institute Of Technology

- Developed a mental health aid website with an integrated OpenAI chatbot, achieving top-10 placement in a competition.

Cisco Hackathon (2024), Manipal Institute Of Technology

- Implemented a Prophet-based sales forecasting model to provide actionable insights for business decision-making.

National Service (2019-2021), Singapore

- Served as a combat medic in the Singapore Armed Forces (SAF)

Technologies and Languages

- Java, C, JavaScript, Python, SQL, HTML, CSS, Django
- Numpy, Pandas, Scikit-learn, OpenCV
- TensorFlow, PyTorch
- Linux and Windows

Certifications

- [Machine Learning Specialization - DeepLearning.ai](#)
- Big Data Specialization, University of SanDiego (Ongoing)