Jayasuryan Mutyala

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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