ASHER JARVIS PINTO

Karnataka, India | asjpint@gmail.com | +91 7022814099

linkedin.com/in/asherjarvispinto | github.com/Awshae | awshae.github.io/Asher

PROFILE SUMMARY

Robotics and AI undergraduate with a strong analytical background. Possesses hands-on experience in machine learning, encompassing both deep learning and traditional algorithms. Skilled in data preprocessing, model evaluation, and scientific computing. Experienced in UI/UX and graphic design, focusing on creating user-friendly interfaces and collaborating effectively across teams.

EDUCATION

B.Tech in Robotics and A.I Engineering - NMAM Institute of Technology, Nitte *2022 - 2026*
Current CGPA - 9.10, 6th Semester SGPA - 9.86

Grade XII - 81% Lourdes Central School, Mangalore *2022*

Grade X - 82.6% Lourdes Central School, Mangalore *2020*

EXPERIENCE

Project Intern - Regional Remote Sensing Centre (RRSC-S), ISRO, Bangalore *Jun 2025 - Jul 2025*

- Annotated 2000+ images for object detection in plastic waste classification.
- Compared Faster R-CNN and YOLOv8 models; YOLOv8n achieved 83% accuracy and proved optimal for deployment.
- Enabled fast, lightweight, and accurate detection for real-time environmental monitoring.

Research Intern - Indian Institute of Science (IISC), Bangalore *Jun 2024 - Jul 2024*

- Analyzed chemical processes using Batch Reactors and GC-MS instrumentation.
- Reviewed 3+ research papers, Collected and refined 5+ experimental datasets for model training.
- Applied ML (Linear Regression, SVM, Random Forest) and DL (MLP,RBFNN) models for prediction.
- Achieved 85% accuracy and 30% reduction in preprocessing time.

Internship - NMAM Institute of Technology, Nitte *Jan 2023 - May 2023*

- Led GUI development for "3Dscape", improving task completion time by ~30%
- Applied intuitive design to enhance navigation based on internal feedback.
- Contributed 250+ lines of backend code and supported integration testing, ensuring smooth UI–logic integration through collaborative debugging.

SKILLS

Python Programming, Machine Learning, 3D Design and Modelling, PLC Programming, Virtual Instrumentation, UI/UX Design, Graphic Design, Software Proficiency in Procreate, Photoshop, and MS Excel.

Leadership, Communication, Versatility, Critical Thinking, Time Management, Analytical Reasoning.

PROJECTS

Air Quality Index (AQI) Prediction Using Multi-Layer Perceptron (MLP) and Radial Basis Function (RBF) Neural Networks : Achieved R^2 Values of 0.88 and 0.87 respectively for MLP and RBFNN on city_day dataset of 26 Indian cities, proving deep learning algorithms are effective for AQI prediction.

Neural Network Modelling of SIR Dynamics from Stochastic Simulations : R^2 values recieved on simulations are 0.6408 for S (susceptible), 0.7672 for I (Infected), and 0.9747 for R (Recovered) compartments.

OOP-Based Apartment Inquiry Chatbot : Implemented basic natural language processing for intent recognition and sentiment analysis to enhance user interaction and manage conversation history.

Maze Solving Robot : Building a Maze solver robot using Arduino Nano, N20 Motors and TB66FNG motor Driver.

Mood Analysis using Vocal features : Created an application in MATLAB, extracts features such as Pitch, Timbre and Amplitude to classify signal into 4 moods- Happy, Sad, Stressed and Calm.

LANGUAGES

Fluent in English (Highly Proficient), Hindi (Working Proficiency), and Konkani (Native); conversational in Kannada and beginner-level in Japanese (A1).