

MOHIT MANGLANI

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Education

Adani University	Ahmedabad, Gujarat, India
Computer Science Engineering (AI&ML) – 7.67 CGPA (Sem-5)	2023 – 2026
Tolani FG Polytechnic	Gandhidham, Gujarat, India
Computer Engineering diploma – 9.48 CGPA (Sem-6)	2020 – 2023

Achievements

Research paper titled '**Predicting Lung Cancer Mortality: A Comparative Analysis of Machine Learning Algorithms for Early Detection and Prognosis**' accepted at the IEEE 2nd International Conference on Artificial Intelligence and Machine Vision (AIMV 2025).

Technical Skills

Languages: Java, PHP, Dart, JavaScript, Asp.net, C/C++, Python, SQL (MySQL, Postgres), HTML/CSS, VB.Net
Frameworks: Spring Boot, Node.js, React, Django, TailwindCSS, CodeIgniter, .Net, Flutter
Developer Tools: Git, Postman, AWS, Google Cloud Platform, VS Code, IntelliJ, Eclipse, NPM, Visual Studio

Projects

- Velox Programming language** (Java, Maven) May 2025 – Present
- Developed a custom programming language with modular compiler and interpreter architecture.
 - Built a **recursive descent parser** and **lexer** to process Velox source code effectively, resulting in 40% fast execution.
 - Implemented **AST-based interpretation** for executing parsed Velox code.
 - Structured the project using **Java and Gradle** with clean package separation (lexer, parser, interpreter, etc.).
 - Designed a **standard library interface** to support future I/O, math, and string operations.
 - Planned support for unit testing and example .vx programs to ensure reliable language behaviour.
- FocusFreak** (Flutter, Dart, C++, CMake, Swift, HTML, CSS) May 2025 – Present
- Built **FocusFreak**, a Flutter mobile app designed to enhance focus and productivity through mindfulness techniques.
 - Implemented core modules like **Pomodoro timer**, **deep reading mode**, **single-task focus**, and **digital detox**.
 - Leveraged flutter animate to deliver smooth, responsive UI animations reducing the latency by 10%.
 - Used shared preferences to persist **user progress and settings locally** providing 50% faster responses.
 - Designed a distraction-free and motivational UX, including **daily quotes** to boost user morale.
- EduCenter** (HTML, CSS, JavaScript, PHP, Apache server, MySQL) Jan 2025 – May 2025
- Led a team of 4 to develop an eCommerce website for a local business as an end-semester Project
 - Built a fully functional website using PHP, MySQL, and JavaScript for seamless user experience.
 - Integrated a cart and inventory system with the Razorpay payment gateway for secure transactions.
 - Optimized the website for user-friendly interaction and efficient handling of product data
- Alzheimer's Detection and Classification** (Python, Kaggle, Neural Networks, Jupyter NB) March 2025 – May 2025
- Conducted research on Alzheimer's MRI image classification using RNN, CNN, and hybrid CNN+RNN architectures.
 - Implemented a deep learning pipeline to categorize brain scans into Mild Demented, Moderate Demented, Very Mild Demented, and Non Demented classes, Achieving over 99.86% accuracy.
 - Evaluated model performance using accuracy, loss curves, and confusion matrix for interpretability.
 - Experimented with ResNet-based CNN for enhanced feature extraction and classification accuracy.

Work Experience

- Jr Developer (freelance) - Innovative Software Development, Gandhidham** Jan 2022 – Feb 2023
- Developed and implemented user-friendly web-sites for 15+ clients.
 - Worked in PHP along with frontend development.