

NANDAN B DESHAMUKH

Mangalore, Karnataka

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EDUCATION

AJ Institute of Engineering & Technology, Mangalore <i>B.E - Computer Science & Engineering - CGPA (Current): 8.33</i>	2022 – 2026 <i>Mangalore, Karnataka</i>
Oxford PU Science College, Vijayapura <i>PUC - PCMB - Percentage: 74%</i>	2020 – 2022 <i>Vijayapura, Karnataka</i>
Alva's English Medium High School <i>SSLC - Percentage: 80%</i>	2019 – 2020 <i>Moodubidire, Karnataka</i>

PROJECTS

A Pathfinding Visualizer using Java Swing | Java, DSA, GUI **2024**

- Developed an interactive GUI-based A* Pathfinding Visualizer using Java Swing with real-time animation and multithreading.
- Implemented the A* algorithm using **Manhattan heuristic** and **priority queues** for dynamic shortest path computation.
- Enabled user-defined start/end points and obstacles, enhancing conceptual clarity of pathfinding and search algorithms.

Crop & Fertilizer Recommendation System using Machine Learning | ML, Python **2025**

- Developed two ML models using **Decision Tree Classifier** to recommend optimal crops and fertilizers based on soil and environmental parameters.
- Achieved **98.86% accuracy** in crop prediction and **100% training accuracy** in fertilizer prediction through effective data preprocessing using StandardScaler and LabelEncoder.
- Delivered reliable AI-driven agricultural recommendations, empowering farmers with informed and efficient decision-making.

AgriSell – Agricultural Equipment Marketplace | React.js, Firebase, Node.js **Present**

- Developing a **web-based marketplace** with an Agile mindset, enabling direct farmer-to-farmer equipment trading and ensuring transparent, fair transactions.
- Contributing features such as responsive design, Firebase Authentication, real-time chat, and automated listings to support secure and efficient user experience.

PROFESSIONAL EXPERIENCE

Edunet Foundation – AI & Data Analytics Virtual Internship **Apr – May 2025**

- Training & Learning:** Completed 1-month internship focused on Artificial Intelligence & Data Analytics under the Skills4Future program, in collaboration with AICTE and Shell India.
- Skill Development:** Gained hands-on experience in data analysis, green skills, and collaborative project work aligned with industry standards.
- Professional Engagement:** Participated in structured sessions and tasks designed to enhance practical understanding of AI concepts and data handling.
- The project developed during this internship is listed as the 2nd project in the Projects section above.*

TECHNICAL SKILLS

Languages: C++, Core Java, Python, SQL (Basic).
Technologies/Frameworks: HTML5, CSS3, Git & GitHub.
Libraries & Tools: NumPy, Pandas, Matplotlib, Scikit-learn, Google Colab.
Developer Tools: VS Code, Eclipse, MySQL.

CERTIFICATIONS

- NPTEL:** Programming in Java (Jul–Oct 2024).
- SkillUp:** Introduction to HTML (Aug 6, 2024).
- Edunet Foundation:** AI & Data Analytics Virtual Internship (Apr–May 2025).