

AYUSH ARYA

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PROFESSIONAL SUMMARY

Entry-level Software Engineer with hands-on experience in full-stack development and AI solutions. Experienced in building scalable applications using technologies such as React, Node.js, and TensorFlow. Collaborative team player familiar with agile workflows and delivering high-impact software.

PROJECTS

AGRIPRED : RICE LEAF DISEASES DETECTION SYSTEM

- Developed a CNN model using Python and TensorFlow on 10,000+ images to classify 10 rice leaf diseases.
- Achieved 90% validation accuracy after 25% improvement via data augmentation and model tuning.
- Deployed using Flask and Render for real-time prediction and early diagnosis support.
- Tech Stack: Python, TensorFlow, Pandas, Matplotlib, Flask, Render

AUTOXPERIO : GARAGE MANAGEMENT SYSTEM

- Developed a full-stack app using Node.js, Express, and MongoDB to manage bookings, billing, and inventory.
- Integrated role-based dashboards with analytics and automated monthly restocking (+100 units/product).
- Deployed on Render with CI/CD; supported 50+ real-time test bookings during simulation.
- Tech Stack: Node.js, Express.js, MongoDB, JavaScript, Render, Git

CLOUDCAST : WEATHER FORECAST APPLICATION

- Engineered a responsive weather application using HTML, JavaScript, and CSS with OpenWeatherMap API integration.
- Achieved <1s load time and 30% better UX through geolocation and optimized API integration.
- Designed a mobile-friendly interface supporting geolocation and manual city search for enhanced usability.
- Tech Stack: HTML, CSS, JavaScript, OpenWeatherMap API, Geolocation API

EXPERIENCE & TRAINING

AI & Data Science Trainee – C-DAC Patna (June 2025 – July 2025)

- Constructed and tested machine learning models using Python, Scikit-learn, and Pandas on real-world datasets.
- Applied data preprocessing, feature engineering, and model validation techniques to improve accuracy by ~20%.
- Gained hands-on experience in ML workflows, from data cleaning to model deployment, securing Grade A certification.

EDUCATION

Vellore Institute of Technology

B.Tech. | Computer Science Engineering | CGPA – 8.39 | Sep 2022 - July 2026

Delhi Public School, Patna (CBSE)

Class XII : 81.4% (2022) | Class X : 82.8% (2020)

TECHNICAL SKILLS

- Languages: Java, Python, JavaScript
- Web Technologies: HTML, CSS, React.js, Node.js, Express.js
- Databases: MySQL, MongoDB
- Machine Learning: Scikit-learn, TensorFlow, PyTorch, NumPy, Pandas, Matplotlib
- Developer Tools: Git, GitHub, VS Code, Postman, Jupyter Notebook
- Concepts: DSA, OOP, Operating Systems, DBMS, Networking, REST APIs, CI/CD, Agile

CERTIFICATIONS

- Microsoft Azure AI Fundamentals: (Score: 904/1000) – Validated skills in ML, NLP, computer vision, and Azure AI services.
- AI & Data Science Internship C-DAC Patna – Gained hands-on experience in Python, model training, evaluation, and deployment; awarded Grade A.

INVOLVEMENT

Core Committee Member – Standards Club (BIS, Govt. of India) | 2023 – 2025

- Organized workshops to promote quality standards and certifications among 50+ students.