



Mandavi Singh

BSc in Data Science and AI
Indian Institute of Technology, Guwahati

Roll No.: 23035010823
s.mandavi@op.iitg.ac.in
GitHub Portfolio LinkedIn

Data Science and AI undergraduate at IIT Guwahati with hands-on experience in machine learning, deep learning, and AI systems.

EDUCATION

Degree	Institute	CGPA/%	Year
BSc (Hons.) Data Science & AI	IIT Guwahati	7.62	2023–2027
BSc Mathematics	Patna University	67.1%	2020–2023
Senior Secondary	S.G.G.S College	76.8%	2017–2019

EXPERIENCE

- AI Engineer Intern**
Long Term Industrial Development Co. Ltd. (LTID), Tokyo, Japan (Remote) Oct 2025 – Mar 2026
 - Worked on **SNS-based agriculture prediction systems** using social and environmental signals.
 - Built machine learning models for agricultural trend and outcome forecasting.
 - Designed and implemented **AI agents** for intelligent automation and decision support.
 - Conducted research, testing, and technical documentation of AI algorithms.
- Machine Learning Intern**
Hybionics (Remote) Feb 2026 – Present
 - Working on deep learning-based **fall detection** using the SisFall dataset.
 - Designed and trained **CNN and LSTM** models on sensor time-series data.
 - Focused on maximizing recall to minimize missed fall detection cases.

PROJECTS

- AI Office Agent [GitHub]** 2026
 - Developed an AI-powered agent for intelligent task automation and workflow assistance using Python.
- SNS-based Agriculture Yield Prediction (LTID – PS6) [GitHub]** 2025
 - Built machine learning models for agriculture yield prediction using social (SNS) and environmental signals.
 - Focused on data-driven decision support for agricultural analytics.
- Arogya Mitra – Healthcare AI Assistant [GitHub]** 2025
 - Developed an AI-based healthcare assistant to predict possible diseases from user-input symptoms.
 - Integrated machine learning models (Random Forest, SVM) with Google Gemini Pro for AI-driven guidance.
 - Built an interactive Streamlit interface for easy use and deployment.
- Age Group Classification (ML Hackathon) [GitHub]** 2025
 - Classified Adult vs Senior age groups using healthcare data with class imbalance handling.
 - Applied SVM and XGBoost with F1-score optimization.
- Breast Cancer Detection [GitHub]** 2025
 - Built machine learning models for malignant vs benign tumor classification.
 - Emphasized minimizing false negatives for safer healthcare predictions.
- Hotel Booking Performance Analysis [GitHub]** 2025
 - Analyzed hotel booking KPIs such as occupancy, revenue trends, and cancellations.
 - Used Python and Power BI for data analysis and visualization.

TECHNICAL SKILLS

- **Languages:** Python, C, Java, R, SQL
- **ML/DL:** Machine Learning, Deep Learning, CNN, LSTM, AI Agents
- **Frameworks:** Scikit-learn, TensorFlow, Keras, PyTorch
- **Tools:** GitHub, Jupyter, Google Colab, Power BI, Excel
- **Other Skills:** Team Leadership, Communication, Technical Documentation

LICENSES & CERTIFICATIONS

- Convoke 4.0 – Pan-IIT AI/ML Hackathon (Semi-Finalist)
- Oracle Cloud Infrastructure 2025 – AI Foundations Associate
- AWS Educate – Machine Learning Foundations
- Introducing Generative AI with AWS (Udacity)
- Summer Analytics 2025 – Certificate of Excellence (IIT Guwahati)
- Time Series Analysis 2025 – IIT Guwahati
- Deloitte Australia – Data Analytics Job Simulation
- Tata – Data Visualisation Job Simulation
- MATLAB Onramp

POSITIONS OF RESPONSIBILITY

- **Coordinator – Literary Club**, IIT Guwahati

Mar 2025 – Present