

Jalaluddin Ansari

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Summary — Bridging Software development and Data Science to create efficient, data-driven applications and solutions.

Skills

- **Languages** : Python, JavaScript, C, Java, HTML, CSS; **Database**: MySQL, MongoDB
- **Frameworks** : ReactJs, NodeJs, ExpressJs, Bootstrap, TailwindCSS, Tkinter
- **Libraries** : Numpy, Pandas, Matplotlib, Scipy, Tensorflow, Pytorch, Scikit-Learn
- **Soft Skills** : Communication, Problem Solving, Team Work, Adaptability

Projects

Optimization of Rice Seedling Growth - LSTM Model

Nov2024 – Mar2025

- Developed an **LSTM** model to predict optimal environmental parameters for rice seedling growth, leveraging time-series sensor data.
- Preprocessed multivariate **datasets (temperature, humidity, CO₂, light, soil moisture)** for ML pipeline.
- Applied **hyperparameter tuning, model validation, and performance metrics** (e.g., RMSE, MAE) to optimize predictive accuracy.
- Integrated **optimization algorithms** for dynamic environmental control based on **real-time model** outputs.
- Demonstrated **data-driven improvements** in growth prediction and environmental adaptation through **ML-driven insights**.

Malaria Disease Detection - Machine Learning Project

Sep2023 – Nov2023

- Developed a **CNN-based model** using **TensorFlow and Keras** to detect malaria from blood smear images.
- Utilized Data Science tools like **OpenCV (cv2)** for image processing and **NumPy, Pandas** for data handling.
- Achieved **95% accuracy** in classifying images as malaria-positive or negative.
- Trained the model on a **labeled dataset** and optimized performance using **Deep learning** techniques.

GST Billing Software - Self-Developed

Jan2021 – May2021

- Built a full-fledged **GST** billing software using **Python Tkinter** and **OOPs**, with **MySQL** backend.
- Enabled bill generation (**Word/PDF**), invoice printing, and **Excel** exports for sales & **GST** reporting.
- Included purchase tracking and monthly **GST** calculation features.
- Successfully **sold 2-3** copies to small businesses, proving industry readiness.
- **Technologies** : Python- Tkinter, openpyxl, pillow, docx, threading, pandas, mysql-connector; Database-MySQL

Web Development Projects

Jan2021 – Present

- **Car Servicing Management System (Advanced)**: Developed a **form-based web application** for a car service company to collect and store data on tyres, engine, and oil using **MongoDB, ReactJs, NodeJs and ExpressJs**.
- **Password Manager**: Secure web app for storing and managing passwords with encryption.
- **Student Management System**: Platform for managing student and teacher records with MySQL database.
- **Weather Application**: Fetches and displays real-time weather data using APIs.
- **Other Projects**: Built multiple simple and advanced websites using **HTML, CSS, JavaScript, TailwindCSS, Bootstrap, and React.js**.

Experience

IBM SkillsBuild

Jun2023 – Jul2023

Data Analyst Intern

Role

- Conducted **data cleaning, preprocessing, and visualization** to extract meaningful insights.
- Used tools like **Python, SQL, and Excel** for data analysis and reporting.
- Developed dashboards and reports to communicate findings effectively.
- Applied **statistical techniques** to analyze trends and patterns in datasets.
- Collaborated with a team to work on **real-world datasets and case studies**.

Technologies

- Python, Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, SQL, NoSQL - MongoDB — Machine Learning — Data Science

Education

Lokmanya Tilak College of Engineering - Mumbai University

Aug2021 - May2025

B.E. in Computer Science and Engineering(AI and ML) - Honors : Blockchain Technology — CGPA : 8

12th - R.J. College

2021

Stream : Science and Scored 78%