

MOHSIN PATHAN

Computer Engineering Graduate

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SUMMARY

Computer Engineering graduate (CGPA 7.44/10) at SPPU with hands-on experience in Python, Flask, machine learning, and full-stack web development. Published research on ML-based pest outbreak prediction for Kharif crops (ICRTSET-2026). Proven ability to deliver end-to-end projects and freelance work under real-world constraints.

EDUCATION

Bachelor of Engineering – Computer Science

CGPA: 7.44 / 10

Government College of Engineering & Research, Avasari Khurd | SPPU, India | 2026

Key Coursework: OOP, Data Structures & Algorithms, Machine Learning, AI, NLP, Deep Learning, Computer Networks, Business Intelligence

HSC (Class XII) – Science

86.17%

Abhishek Jr. College of Science, Pune | Maharashtra State Board | 2021

SSC (Class X)

74.40%

Abhishek Vidyalayam English Medium School, Pune | Maharashtra State Board | 2019

TECHNICAL SKILLS

Languages: Python, C++, C, JavaScript, SQL

Web Development: HTML, CSS, React.js, Flask, Node.js, REST APIs

Machine Learning: Scikit-learn, Pandas, NumPy, Matplotlib, Random Forest, XGBoost, SVM, LSTM

Databases: MySQL, SQLite, MongoDB, Microsoft SQL Server

Developer Tools: VS Code, Jupyter Notebook, Postman, Docker, Git, GitHub

Design & UI: Figma, Tailwind CSS, Canva, Adobe

INTERNSHIP EXPERIENCE

Python Programming Intern – Codsoft, Kolkata

Apr 2025 – May 2025

Tech Stack: Python, Flask, Pandas, NumPy, Git

- Built and tested Python scripts and Flask web applications for real internship project requirements.
- Cleaned and processed datasets using Pandas and NumPy to support data analysis tasks.
- Wrote modular, reusable code following PEP 8 standards with systematic testing practices.
- Collaborated via Git with a team of 5, contributing to code reviews and weekly sprint deliverables.

PROJECTS

KrishiSetu – Pest Outbreak Prediction for Kharif Crops (ML)

Tech Stack: Python, Scikit-learn, XGBoost, LSTM, Flask, MySQL, Pandas, Matplotlib | [GitHub](#)

- Developing an ML system to predict pest outbreaks across Maharashtra districts using environmental and soil data from 1,000+ sensor records.
- Implemented data pipeline (outlier detection, feature encoding, normalization) improving model input quality by ~40%.
- Training and comparing Random Forest, XGBoost, SVM, and LSTM models with hyperparameter tuning for optimal accuracy.
- Building a Flask backend for real-time predictions with a web dashboard visualizing pest risk levels and weather trends.
- Research paper accepted at ICRTSET-2026 conference; presented findings on Kharif crop pest prediction using ML.

Websites With Punch – Agency Website

Tech Stack: Vite, React, TypeScript, Tailwind CSS, shadcn/ui | [websiteswithpunch.com](#) | [GitHub](#)

- Built a high-performance, lead-focused agency website for HVAC & Solar businesses with a component-driven React/TypeScript/Tailwind UI, collaborating with a friend from design through deployment.
- Structured the codebase (API layer, reusable components, hooks) for maintainability; deployed the production build via Vercel.

Flask Student Management System

Tech Stack: Python, Flask, SQLite, HTML, CSS | [GitHub](#)

- Built a full-stack CRUD web app to manage student records (Add, View, Delete) with a clean HTML/CSS interface.
- Implemented Flask-SQLAlchemy ORM with SQLite; structured for deployment with requirements.txt and best practices.
- Documented project on GitHub with version-controlled commits and a clear README for reproducibility.

RESEARCH & PUBLICATIONS

Pest Outbreak Prediction for Kharif Crops Using Machine Learning

- Presented at ICRTSET-2026 (International Conference on Recent Trends in Science, Engineering & Technology). Research explores environmental feature-based classification models (Random Forest, XGBoost, SVM, LSTM) for agricultural pest risk prediction across Maharashtra.

FREELANCE & OTHER EXPERIENCE

Maps Search Quality Rater – TryRating

- Evaluate and rate Google Maps search results for relevance, accuracy, and quality using detailed evaluation guidelines.

AI Data Evaluator – Invisible Technologies

- Perform structured evaluation of AI model outputs for data quality, accuracy, and alignment with project guidelines.

SOFT SKILLS: Communication • Collaboration • Problem-solving • Leadership • Time Management • Critical Thinking