TEJAS WAGHERE

Pune, MH, India | tejaswaghere7770@gmail.com | +91 7709965652 | LinkedIn | GitHub

SUMMARY

AI & ML-focused Computer Science student with hands-on experience building ML pipelines, GenAI applications, automated QA/testing agents, and fullstack systems. Worked on fraud & anomaly detection strategy, speech emotion recognition, crop yield prediction, and LLM-based applications using Python, AWS, Docker, Django, and modern ML workflows. Comfortable with data preprocessing, model evaluation, and deploying applications across cloud and containerized environments.

EDUCATION

PCET's Pimpri Chinchwad University 08/2023 – 08/2027

B.Tech in Computer Science Engineering **(AI & ML)** | CGPA: 7.83

Relevant Coursework: Data Structures & Algorithms, DBMS, Computer Networks, IoT Development, Artificial Intelligence, Machine Learning.

EXPERIENCE

AI & ML Intern - GreenCashX 06/2026 – 08/2026

- Designed and deployed an autonomous QA agent for end-to-end web/mobile testing (Playwright + CDP), automating 71 test cases across 8 categories at a 92% pass rate and surfacing critical data-integrity defects pre-launch
- Authored a tiered fraud & anomaly detection strategy (rule-based → statistical → ML-based) for a peer-to-peer energy-trading platform, covering identity fraud, wash trading, payment fraud, and bot abuse
- Proposed AI-driven risk controls including a dynamic User Trust Score, explainable-AI flagging, and weather-based energy-generation validation

AI Intern - Arvanta Governance 04/2026 – 06/2026

- Built and independently shipped 4 end-to-end ML pipelines within a multi-component data intelligence platform using a Git branch-per-component workflow
- Engineered 35+ features and trained XGBoost / Logistic Regression classifiers, achieving 0.83 cross-validated AUC
- Designed a standardized JSON schema adopted team-wide for consistent cross-component integration
- Built reusable Python automation (pandas, NumPy, scikit-learn) with structured logging and error handling

PROJECTS

Stress Detection Using Speech Analysis (Live Demo)

- Developed a real-time speech emotion recognition system capable of detecting stress from live audio input
- Implemented a browser-based audio recording pipeline enabling seamless real-time inference
- Engineered a feature extraction pipeline with 46+ acoustic features, improving model robustness
- Achieved ~84% accuracy with Random Forest, outperforming deep learning baselines while reducing complexity
- Deployed using Hugging Face Spaces, ensuring reproducibility and scalability

AI-Based Crop Yield Prediction

- Engineered an AI-driven crop yield prediction system using weather, soil, and satellite data, applying feature engineering to generate district-level yield forecasts
- Processed and integrated multi-source agricultural datasets, improving model robustness and prediction quality
- Built a dashboard and SMS alert system delivering real-time, actionable advisories to farmers, improving decision-making for crop planning and resource optimization

SKILLS

Languages: Python, SQL, Java, HTML, CSS

ML & Data: NumPy, Pandas, Scikit-Learn, Deep Learning, TensorFlow, PyTorch, Seaborn, Matplotlib

Tools & Visualization: Power BI, Tableau, Excel (Pivot Tables/Charts)

Cloud & DevOps: AWS, Docker, Hugging Face Spaces, Git

Backend & Databases: Flask, Django, REST APIs, MongoDB, SQLite

ACHIEVEMENTS

- **Finalist -** Smart India Hackathon (Internal Round): among top teams shortlisted to represent the college at the national-level Smart India Hackathon for developing innovative tech solutions to real-world problems
- **3rd Position -** PCU's Biznest

CERTIFICATIONS

- Red Hat Application Development - Programming in Java
- Prompt Design - Google Cloud
- Django Web Framework