Jagruti Vijay Katkhede

jagrutikatkhede@gmail.com | +91-7420987655 | LinkedIN | GitHub |

EDUCATION

Bachelor of Engineering (IT), Savitribai Phule Pune University   2019–2023
CGPA: 8.47/10.0

HSC, Maharashtra State Board of Secondary and Higher Secondary Education   2017–2019
Percentage: 71.23%

SSC, Maharashtra State Board of Secondary and Higher Secondary Education   2015–2017
Percentage: 82.40%

SKILLS

Programming Languages	Python, Flask
ML/AI	Deep Learning, NLP, LLMs, Model Fine-Tuning, Transformers, Model Evaluation
Data Analysis	EDA, Feature Engineering, Statistical Analysis
Libraries/Tools	Pandas, NumPy, Matplotlib, Seaborn, Scikit learn, PyTorch
Databases	MySQL, SQLAlchemy
Version Control and Tools	Git, CI/CD, Jupyter Notebooks
Soft Skills	Problem-Solving, Collaboration, Analytical Thinking

WORK EXPERIENCE

GenAI Intern, Muks Robotics   Jan 2025 – Mar 2025
- Researched and analyzed architectures of LLMs including GPT, BERT, and Whisper
- Built a voice assistant application, enhancing speech clarity and reducing background noise by 80%
- Fine-tuned and optimized models for real-time inference and deployment

Jr. Software Engineer, SecurView Systems   Mar 2024 – Jun 2024
- Developed responsive, modular UI components in Angular and TypeScript for enterprise web apps
- Integrated more than 10 REST APIs to fetch and display dynamic data smoothly and securely
- Developed modular frontend components and wrote unit tests using Jasmine
- Used Postman for API testing and validating request-response workflows
- Collaborated on improving UI responsiveness and API integration performance

Data Science Intern, Etlhive   Aug 2023 – Feb 2024
- Analyzed complex datasets and built predictive models to uncover insights and support data-driven decisions
- Worked on improving forecasting models with Random Forest and Decision Trees, boosting accuracy up to 90
- Applied EDA and feature engineering techniques to clean data and highlight key trends
- Created visual reports using Python libraries like Seaborn and Matplotlib to explain findings clearly

TECHNICAL PROJECTS

PetMatch - Full-Stack Pet Adoption Platform (Python, Flask, Angular, MySQL)
- Built a full-stack web application allowing real-time pet adoption with Flask backend and Angular frontend
- Implemented user authentication, pet listing page, pet adoption form, and admin dashboard
- Developed Flask REST APIs for user login, registration, pet management, and adoption processing
- Used MySQL and SQLAlchemy ORM for efficient backend data management
- Created dynamic, responsive UI with Angular and PrimeNG components

PersonalityPredict - Machine Learning Classification (Python, SVM, PCA, Flask)
- Collected and cleaned a personality classification dataset from Kaggle, handling missing values and encoding categorical features
- Performed exploratory data analysis to understand feature distribution and identify patterns in personality traits
- Applied Principal Component Analysis (PCA) to reduce dimensionality while preserving key information and improving model performance
- Built a Support Vector Machine (SVM) classifier and optimized hyperparameters using GridSearchCV to achieve 98.67% accuracy
- Serialized the trained model using Joblib and deployed it via a Flask-based REST API for real-time predictions
- Tested the deployed API with sample inputs to ensure smooth end-to-end functionality from data input to prediction output

CERTIFICATIONS

- Google IT Automation with Python Specialization
- Google Data Analytics Specialization