Dhruv Daberao

dhruvdaberao@gmail.com +91-9322417984 GitHub LinkedIn Portfolio

EDUCATION

B.Tech in Information Technology, SCTR's PICT, Pune *Nov 2022 – Apr 2026 (Expected)*
Last Semester's SGPA: **9.02**

EXPERIENCE

Full-Stack ML Intern – Resume Insight (In-House, PICT) *Feb 2025 – Apr 2025*

- Developed a resume scoring platform using Node.js, Express.js, MongoDB, and spaCy.
- Increased analysis accuracy by 15% through improved NLP-based keyword extraction.
- Reduced resume parsing time by 10% via optimized spaCy integration and data indexing.
- **Demo:** resume-insight.vercel.app

AI/ML Virtual Intern – EduSkills with Google Collaboration *Oct 2024 – Dec 2024*

- Completed 10-week internship covering core ML concepts, model training, and evaluation.
- Applied scikit-learn, TensorFlow, and PyTorch on real-world datasets for tasks like **image classification** and **natural language understanding**.

PROJECTS

Therapy Cat – Flask, React, scikit-learn, LLM, Random-Forest *May 2025*

- Developed a full-stack mental health assistant recommending therapy types using user input and ML.
- Built Flask backend for data processing; trained scikit-learn classifier achieving 85% accuracy.
- Integrated with dynamic React frontend.
- **Code:** github.com/dhruvdaberao/therapy-cat

DopaTrack – Flask, Python, scikit-learn, Matplotlib *Nov 2024*

- Built mental health monitoring tool analyzing dopamine-influencing habits; implemented Random Forest SVM models (80% accuracy) for mood classification.
- Visualized weekly dopamine trends and generated personalized habit recommendations.
- **Code:** github.com/dhruvdaberao/dopatrack

AgriGains – HTML, CSS, JavaScript, scikit-learn, ML models *Mar 2024*

- Developed an ML-powered web platform for predicting crop yield and suggesting optimal fertilizers.
- Trained ML models (Decision Tree, Random Forest) on agricultural datasets, achieving 82% accuracy.
- Designed frontend UI and integrated Python backend logic.
- **Code:** github.com/dhruvdaberao/agrigains

RESEARCH & PUBLICATION

ResumeInsight: An AI-Driven Framework for Semantic Resume–Job Matching and Skill-Gap Analysis
Submitted to GITCON 2025 (Paper ID: 703, Under Review)

- Spearheaded development of an NLP/ML system (spaCy, regex, Levenshtein distance) for advanced resume–job matching and skill-gap analysis.
- Achieved high predictive performance: 89.3% F1-score for skill tagging and 75% accuracy for fit prediction using Random Forest, XGBoost, and ANN models.
- **Implementation:** github.com/dhruvdaberao/resume-insight

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C++, SQL
Web: React, Node.js, Express, Flask, HTML, CSS
ML/NLP: scikit-learn, spaCy, pandas, NumPy, Matplotlib, Seaborn, TensorFlow, PyTorch
Tools: Git, GitHub, Docker, Firebase, Vercel, Render, Postman
Core CS: Data Structures, Algorithms, DBMS, CN, OS, OOP, Software Engineering, System Design