AMIT BALASAHEB GANGANE

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Machine Learning Engineer with 2+ years of experience applying techniques to real-world problems through academic & project-based work. Skilled in building end-to-end pipelines, model experimentation, & deploying scalable solutions using industry-standard tools.

Technical skills: Transfer Learning, LIME, CI/CD, Drift Detection, Class Imbalance Handling (SMOTE), Docker, Kubernetes, Git, MLflow, Hugging Face Transformers, Bayesian Inference, Joblib, Flask, A/B testing, RNN, GNN, CNN.

Certifications: Google Cloud Certified (Professional Machine Learning Engineer), DeepLearning.AI (Machine Learning Specialization), AWS Cloud Practitioner.

EDUCATION

University of California Davis | Master of Science, Business Analytics | San Francisco   **Aug 2024 – Aug 2025**

♦ *Highlighted Coursework:* ML, adv. Stats, Big Data, SQL, Analytics Decision Making, Causal Inference

Sikkim Manipal Institute of Technology | ECE | India   **Jul 2018 – Aug 2022**

♦ *Highlighted Coursework*: Python, Data Structures & Algorithms, C++, Java, MATLAB, DBMS, OOPs

WORK EXPERIENCE

Angle Flight West – Agency Management | Lead Data Analyst | Practicum Project | San Francisco   **Aug 2024 – Aug 2025**

♦ Developed an address extraction pipeline using **Serper API, BeautifulSoup, and Playwright**, achieving over **75%** accuracy.
♦ Engineered proximity-based logic using airport data to rank and filter addresses for logistics relevance.
♦ Automated **web scraping** and validation workflows to improve healthcare agency data quality.
♦ Reduced manual research efforts by **60%**, improving outreach accuracy through scalable ML-driven processes.

CodeKul | Software Developer Intern | India   **Jul 2022 – Apr 2023**

♦ Developed and deployed **RESTful APIs** using **Java (Spring Boot)** integrated with SQL databases for dynamic data operations.
♦ Reduced client-side data processing time by **35%** by optimizing backend queries and schema design.
♦ Contributed to **Agile sprints** and client feedback loops, maintaining a **95% on-time delivery rate** across deliverables.
♦ Gained hands-on experience with Git-based version control, modular backend architecture, and unit testing with JUnit.

InCredo | Business Analyst Intern | India   **Jan 2022 – Jun 2022**

♦ Built and deployed **10+ interactive dashboard**s using **Power BI** and **Tableau**, visualizing KPIs across sales and operations.
♦ Designed efficient SQL logic to extract key KPIs from large datasets, improving reporting speed and insight delivery
♦ Automated recurring reporting workflows, reducing manual effort by **30%** and improving reporting turnaround.
♦ Collaborated with cross-functional teams to translate analytical insights into strategic business actions.

PROJECTS

SchedWiz – AI Study Schedule | *GitHub*   **Apr 2025 – May 2025**

♦ Built an Agentic AI with **PyTorch and Spark MLlib** to predict student outcomes (**73.3%** accuracy, **0.81** F1-score).
♦ Engineered a dynamic Scheduler Agent to auto-generate study plans from real-time inputs and model predictions.
♦ Processed behavioral student data at scale using PySpark for high-volume preprocessing and feature extraction.
♦ **Applied MLP and Gradient Boosted Trees** for multi-class classification & integrated performance-driven time allocation logic.

Ace the Space – AI-Powered Resume-Job Recommendation System | *GitHub*   **Feb 2025 – Mar 2025**

♦ Developed an NLP model using BERT embeddings and cosine similarity to match resumes with top 5 job descriptions.
♦ Achieved **98.53% accuracy**, **80.22% precision**, and **89.02% F1-score** using a fine-tuned **BERT + SVM** hybrid model.
♦ Built parameterized ML pipelines to accelerate experimentation and optimize model performance through efficient tuning.

WageWizard – Salary Prediction Engine | *GitHub*   **Dec 2024 – Dec 2024**

♦ Designed a **Random Forest regression model ($R^2 = 0.98$)** to predict salaries using education, experience, and role features.
♦ Delivered an end-to-end ML workflow with EDA, feature engineering, and deployable assets for Streamlit integration.

Wrap Around Scraper – Restaurant Data Aggregation & Recommendation | *GitHub*   **Nov 2024 – Nov 2024**

♦ Collected & cleaned restaurant data from multiple sources using Py. & **BeautifulSoup** for better recommendations
♦ Proposed a hybrid recommendation model using content & collaborative filtering for personalized dining options.