AMIT MANJARLY

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SUMMARY

Ardent Data Science student with hands-on experience in machine learning, Python programming, and data analysis. Skilled in building and optimizing predictive models, working with large datasets, and applying machine learning algorithms to solve real-world problems. Proficient in PyTorch, SQL, and model development, with a focus on driving AI solutions. With 3+ years in Quality Assurance, I bring a strong attention to detail and a problem-solving mindset, now aspiring to transition into a full-time Machine Learning engineer role.

SKILLS

Programming Languages & Frameworks: Python, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Java, C++, SQL
Data Analysis & Development Tools: Jupyter, Google Collab, VS Code, Impala, Hive, Oracle, Toad for Oracle, Neo4j
DevOps & Tools: Git, Github, SDLC, Data Structures and Algorithms, Docker, Kubernets, Apache Kafka

EXPERIENCE

Accenture PLC Hyderabad, India
Data Engineering Management and Governance Analyst March 2021 – July 2024

- Optimized **Python** scripts by refining algorithms, reducing processing time by 15% and enhancing efficiency.
- Validated data using **SQL** in **Impala** and **Hive**, ensuring 100% accuracy and integrity throughout the migration process.
- Analyzed workflows and proposed process improvements, leading to a 25% increase in data processing efficiency.
- Assisted in troubleshooting and debugging critical issues, contributing to a 10% reduction in post-release issues.
- Contributed to international banking project, gaining industry knowledge and improving operational efficiency by 15%.
- Clarified client requirements via meetings, resulting in improved project alignment and a 20% boost in client satisfaction.
- Utilized **JIRA** and **KANBAN** boards for task tracking, enhancing team collaboration and transparency by 40%.
- Led development initiatives, coordinating team efforts to ensure 100% of project deadlines were met.
- Developed and conducted comprehensive training sessions for new hires, reducing onboarding time by 30%.
- Participated in **User Acceptance Testing (UAT)**, ensuring 100% end-user satisfaction with deliverables.

Terminal Trend Ahmedabad, India
Technical Intern January 2021 – February 2021

- Acquired proficiency in JavaScript, progressing from foundational to advanced level for front-end development.
- Developed interactive games using HTML, CSS, and JavaScript, demonstrating creativity and versatility.
- Supported deployment on a live project, ensuring seamless client collaboration and integration.

PROJECTS

Image Classification with CNNs and SVMs (GitHub) September 2024 - November 2024

- Designed and implemented **custom CNN architectures** using **PyTorch** for CIFAR-10 image classification tasks.
- Preprocessed CIFAR-10 and MNIST datasets with **Torchvision** and **sklearn** for high-quality model input.
- Applied **Principal Component Analysis (PCA)** for effective dimensionality reduction and feature space optimization.
- Developed and evaluated **Logistic Regression** and **SVM models** for MNIST binary classification problems.
- Evaluated model performances using metrics like confusion matrix, ROC curves, and AUC scores.
- Optimized neural networks using advanced techniques like **Stochastic Gradient Descent (SGD)** and **Adam** optimizers.
- Built end-to-end machine learning pipelines with sklearn for efficient data preprocessing and model training workflows.
- Visualized dataset insights and model evaluation results using **Matlplotlib** for enhanced interpretation.

End-to-End Hybrid Movie Recommendation Engine (Github) May 2025 – June 2025

- Developed a hybrid recommendation engine **(SVD and TF-IDF)**, out-performing baseline by **16x (0.26 Precision@10).**
- Built a tuning pipeline to identify the optimal number of latent factors, balancing precision and overfitting.
- Addressed the **cold-start problem** by serving dynamic, content-based suggestions to new users.
- Bench-marked the model against Popularity and Random baselines using **Precision@10** and **Recall@10** metrics.
- Processed raw user ratings into a sparse user-item matrix for model training using **Pandas**.

EDUCATION

Arizona State University Tempe, Arizona, USA
Master of science in Data Science, Analytics and Engineering August 2024 – May 2026
Gujarat Technological University Ahmedabad, India
Bachelor of Engineering in Computer Engineering August 2015 – June 2019