Amit Anantrao Patil

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EDUCATION

California State University, East Bay, Hayward, California   May 2025
Masters of Science in Computer Science (GPA: 4/4)
Relevant Courses: *Advanced Algorithms, Web Systems, Cybersecurity, Theory of Computation, Operating Systems Design*

TECHNICAL SKILLS

Programming Languages: Python, C++
Frameworks/Tools: PyTorch, TensorFlow
Core Skills: Transformer Models, Reinforcement Learning, Fine-tuning, Prompt Engineering, LLMs, AI model deployment, REST APIs, Database Design, Back-end (Flask, Django), Database (MySql, MongoDB, PostgreSQL)
Research Experience: Working with GPT, LlaMA, or other large-scale transformer models

WORK EXPERIENCE

California State University, East Bay   2024
Student Assistant
· Built and maintained autonomous Duckiebots using NVIDIA Jetson Nano and ROS for real-time navigation and obstacle detection in Duckietown environments.
· Documented and streamlined assembly procedures and coding standards for robotics lab, resulting in a 30% reduction in setup time for new systems.

Kipi.ai   2023
Senior Software Engineer   *Remote*
· Reduced cloud data warehousing processing time by 40% by implementing optimized data flow pipelines and enhancing storage utilization.
· Migrated high-volume data from RDS to Snowflake using Airflow, decreasing reporting latency by 20% and allowing for real-time analytics.
Software Engineer   2022 - 2023
· Spearheaded the development of a Data-Ops pipeline, applying Agile and DevOps practices to reduce deployment failures by 30% and increase delivery speed by 20%.
· Partnered closely with stakeholders to define project scopes, leading to a 25% reduction in project timeline and a 15% boost in customer satisfaction.
Software Engineer Intern   2022
· Drove data engineering initiatives, improving data-driven decision-making by 20%.
· Optimized data storage and analytics with Snowflake, reducing processing time by 15%.

NTT DATA   2021 - 2022
Software Engineer Intern   *Remote*
· Developed API solutions with MuleSoft, improving integration efficiency by 25% across distributed data sources for various enterprise clients.

PROJECTS

AI Learning Assistant | GitHub |100+ hours
· Developed a Zoom-based chatbot that summarizes lecture content, generates quizzes, and offers additional learning resources using Fireworks AI and Qdrant.
· Implemented seamless integration with Zoom APIs to provide real-time lecture summaries and resource generation, enhancing student engagement.
· Built an architecture using LlamaIndex for data organization and vector search capabilities with Qdrant for fast and relevant information retrieval.

Notes Sorter | GitHub | 40+ hours
· Developed an automated tool that detects colored Post-it notes in images and categorizes them in Google Drive using Google Drive API.
· Scaled application to support multiple color categories and formats, streamlining document organization workflows.

Podcast Scraper and Transcriber | Github | 60+ hours
· Built a web scraper and transcription service for podcasts, using APIs (Spotify, Apple Podcasts) and integrating Streamlit for front-end interfacing.
· Developed backend automation to streamline transcription processes and enhance accuracy, resulting in a 20% reduction in manual editing.