Manil Mehta

San Francisco Bay Area · 209-566-1011 · mmmehta@ucdavis.edu · linkedin.com/in/manilmehta

Education

University of California - Davis · **Expected May 2027**
B.S. in Data Science · *Davis, CA*
- **Coursework:** Data Logic and Computing, Data Structures & Algorithms, Statistical Data Science I & II, Introduction to Programming

Skills

Python, Java, JavaScript, SQL (PostgreSQL, MySQL), HTML/CSS, AWS (S3, Lambda, EC2), GCP, Docker, Kubernetes, Git, MongoDB, Node.js, Express, React, Node.js, Express, Flask, Tailwind CSS, Pandas, Scikit-Learn, Keras, PyTorch, REST APIs

Experience

Palantir Technologies · **Nov 2025 − Present**
Software Engineering Fellowship · *Remote*
- Built UAV batch/streaming ML pipelines in Palantir Foundry with telemetry normalization and lineage-tracked inference outputs
- Deployed YOLOv8/ResNet-50 inference and FAISS-backed RAG pipelines on Palantir AIP for maintenance triage.
- Instrumented ML observability pipelines, tracking drift, data integrity, and inference reliability with Evidently inside Foundry.

Project RISHI @ UC Davis · **Sep 2025 − Present**
Software Developer · *Davis, CA*
- Built a React Native mobile application for medication adherence with scheduled notification workflows and persistent user state.
- Implemented notification scheduling, cancellation, and update logic to handle user changes, missed reminders, and lifecycle events.
- Designed privacy-aware reminder timing algorithms to reduce stigma and improve medication adherence in healthcare settings.
- Collaborated with healthcare stakeholders to convert clinical requirements into production-ready mobile features.

Amazon · **June 2025 − August 2025**
Data Science Extern · *Remote*
- Built an onboarding review triage system using MiniLM embeddings and LightGBM to rank early employee attrition risk
- Preprocessed 5K+ employee reviews with pandas and scikit-learn; improved precision@10 by 18% over baseline.
- Applied SHAP to explain LightGBM rankings, highlighting influential tokens in the top 10% of high-risk flagged reviews

STEMplicity · **Jun 2023 − May 2025**
Co-Founder — Program Director · *San Francisco, CA*
- Architected and scaled program delivery systems supporting 1,000+ users, optimizing scheduling and operational workflows.
- Designed CS curricula and assessment frameworks focused on algorithmic thinking and computational problem-solving.
- Built and ran CS Bee, a large-scale technical evaluation program assessing CS fundamentals across cohorts.
- Led and managed cross-functional teams, owning execution and end-to-end delivery.

Projects

ATLAS | *FastAPI, Python, PostgreSQL, Docker, Whisper* · **2025**
- Built a multimodal reasoning pipeline for event reconstruction from text, image, video, and audio inputs.
- Developed an agentic memory pipeline that tracks user context and adapts next-day lessons based on learning history.

SpeechMe | *Python, Next.js, Hugging Face STT, LLMs, MongoDB* · **2025**
- Developed a multilingual emergency response agent converting unstructured speech into structured MCP dispatch actions.
- Integrated DeepL translation, Perplexity classification, and Apify retrieval for location-aware autonomous routing.

MedWise | *Next.js, Flask, Neo4j, Pinecone, Hugging Face* · **2025**
- Developed a graph-based RAG system linking 1,000+ drugs with embeddings in Pinecone for generics and interaction queries.
- Integrated Neo4j graph traversal with Hugging Face rerankers to improve retrieval precision and clinical interpretability.

Wizard | JavaScript, Node.js, TypeScript, Docker, Postgres, Shell scripting, JSON parsing · **2025**
- Built Wizard, a CLI debugging tool with sandboxed error reproduction, syscall tracing, and structured root-cause analysis.
- Added automated fix workflows using semantic error classification, environment diffing, and safe command execution.