

# Tanay Mehendale

San Jose, CA (can relocate) | [tanay.mehendale@tamu.edu](mailto:tanay.mehendale@tamu.edu) | 979-344-3679 | [LinkedIn/tanay-mehendale](https://www.linkedin.com/in/tanay-mehendale) | [Portfolio](#) | [GitHub](#)

## SUMMARY

---

*AI focused Data Engineer with 2.5+ years of experience building systems using SQL, Python, ETL and automation with exposure to SAP ERP and AWS based data pipelines. Hands-on experience designing AI agents, RAG, and LLM workflows including vector search, and API integrations. Comfortable working in enterprise environments, agile teams, and deploying reliable AI systems*

## EXPERIENCE

---

**Data Engineer Intern – Texas A&M University | Remote, San Jose, CA** **Aug 2025 – Present**  
*(Python, ETL, AWS, Data Pipelines, Data Modeling, Pandas, Sentiment Analysis)*

- Architected a Python based ETL pipeline to consolidate 3 data sources into a multi-layer data lake on Amazon S3, reducing data preparation time by 40% and aiding time series analysis
- Developed scalable logic to ingest 2M+ unstructured raw text via Reddit API, implementing regex-based alias matching across 25+ subreddits to expand data coverage by 300%
- Optimized performance by resolving API failures, resulting in 100% data capture reliability and a 34% increase in speed
- Integrated LLM based sentiment analysis to derive 12 distinct themes, creating high-value categorical features to improve segmentation and trend modeling

**Software Engineer - LTIMindtree | Mumbai, India** **Jan 2021 – Jun 2023**  
*(SQL, Python, ETL, Data Modeling, RCA)*

- Developed 45+ custom ERP transactions using ABAP with SQL, improving data retrieval speed by 95% for 400+ users
- Diagnosed and resolved 30+ technical support issues via root cause analysis, cutting average resolution time by 35%
- Collaborated with global teams to optimize SDLC audits and change management practices, reducing SOX compliance issues by 84% across 52+ releases

## PROJECTS

---

**ApartmentFinder – AI Agent for Relocations** | [Link](#) | *AI Agents, RAG, LLM, MCP, GCP, Agentic AI, Google ADK*

- Designed a multi-agent RAG based AI assistant using Google ADK, reducing insight turnaround time by 95%
- Built MCP client-server architecture for real-time distance and time calculations using Google Maps APIs

**CoverLetter AI** | [Link](#) | *Python, LLM, AWS Strands, Streamlit, OpenAI API, Cursor*

- Developed an AI agent to tailor cover letters by matching user writing style, leveraged rapid prototyping in Cursor

**InterviewBuddy** | [Link](#) | *RAG, Python, LLM, Generative AI, Gemini API, LangChain*

- Designed a RAG based AI Assistant to generate useful interview questions based on the resume and job description

**Real Time Sign-Up Health Monitor** | [Link](#) | *Airflow, Kafka, Spark, Cassandra, Docker, Git, Real-Time Streaming*

- Developed a fault-tolerant real-time streaming pipeline using Kafka, Spark Streaming, and Cassandra to monitor user sign-up health; Implemented anomaly detection logic to alert failures beyond traditional batch monitoring limits

**ResQVision - Emergency Analytics** | [Link](#) | *React, D3.js, Node.js, TypeScript, JavaScript, CI/CD, Vercel*

- Built an EMS dispatch insights dashboard using React and D3.js to reduce information delays by 60%
- Integrated CI/CD with GitHub Actions for real-time Vercel deployment error checks

**AWS Point of Sale (POS) System** | [Link](#) | *AWS, EC2, Data Modeling, Clustering, Replication, MariaDB, MongoDB*

- Deployed a POS system on AWS EC2 with MariaDB, implemented clustering and sharding to enhance horizontal scaling
- Boosted read efficiency by 45% through optimized NoSQL modeling into MongoDB

## EDUCATION

---

**Texas A&M University - M.S. Management Information Systems | College Station, TX** **May 2025**  
*Relevant Courses: Advanced Data Management, Statistics & Foundations of Big Data, Data Visualization*

**University of Mumbai - B.Tech. Electronics & Communications | Mumbai, India** **May 2021**  
*Relevant Courses: Database Management Systems, Machine Learning & Artificial Intelligence*

## SKILLS

---

**Certifications:** [AWS Solutions Architect](#), [Assoc. Data Engineer](#), **Hackathons:** [Google AI Agents Intensive Hackathon](#)

**Programming:** SQL, Python, Java, C, C++, HTML, CSS, JavaScript, TypeScript, PostgreSQL, Git, R, Shell, Bash

**Database:** MySQL, MariaDB, MongoDB, Postgres, SAP HANA, IBM DB2, Cassandra, OLTP, OLAP

**Cloud:** AWS, EC2, Athena, RDS, Redshift, S3, Docker; **AI:** LLM, RAG, LangChain, Google ADK, GenAI, MCP, Agentic AI