Lee Gantt

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AI & Machine Learning Project Experience

• Led a team of data scientists and engineers to perform **signal disaggregation** on raw residential smart meter data to detect EV charging events. The solution began with heuristic-based detection methods and was evolved to a purpose-built **machine learning model** to improve detection accuracy. Provided hands-on data engineering support using SQL Server, AWS Aurora PostgreSQL, and Athena to clean and structure the underlying datasets.

• Managed a team that designed and deployed an **AI-powered email parsing and decisioning system** using **AWS Bedrock**. The system ingested automated system log notifications delivered via email, applied a **large language model (LLM)** to interpret and classify the content, and stored structured results in a PostgreSQL database. Oversaw requirements definition, team coordination, and end-to-end delivery.

• Applied **Claude AI** to synthesize raw customer discovery interviews for a MAP Assess engagement, producing a polished executive pitch deck and formal assessment deliverable. Reduced hours of unstructured interview content into structured, client-ready output.

• Leveraged **Claude AI** to generate and distribute structured summaries of meeting transcripts across multiple concurrent projects. Improved stakeholder communication consistency and reduced manual documentation overhead for a team of project managers.

• Participated in **Design Thinking sessions** to define requirements for a next-generation fleet depot **Charge Management System (CMS)**. The envisioned system incorporates intelligent scheduling and optimization logic to help operations managers and vehicle drivers maximize EV charging efficiency while minimizing grid impact.

• Participated in Design Thinking sessions to envision the future of the power grid — from transmission to the meter — incorporating **Vehicle-to-Grid (V2G), Home-to-Grid (H2G)**, hybrid generation, distributed intelligence, and **AI-driven demand response**. Collaborated with Cyber, Telecom, Generation, Metering, and IoT teams to develop a forward-looking grid architecture proposal.