

SWEN 640: Research Methods

Signature Sheet for Capstone/Thesis Preparation Meeting

Submit this form for each meeting with your advisor during SWEN 640. Once the problem statement is approved, please speak with 640 instructor and upload to MyCourses.

Student Name: Kush Jayesh Ahir

Advisor Name: _____

Faculty Advisor fills out the following:

☐ Initial Topic Discussion - Advisor Initials: _____ Date: _____

☐ Problem Statement Discussion - Advisor Initials: _____ Date: _____

☐ Problem Statement: Approved - Advisor Initials: _____ Date: _____

☐ Proposed Methodology: Discussion - Advisor Initials: _____ Date: _____

☐ Proposed Methodology: Approved - Advisor Initials: _____ Date: _____

Student fills out the following:

Proposal Title:

From Code to Cognition: Managing Technical Debt in Large Language Models

Problem Statement:

1. Debt Build-Up Owing to Models' Quick Evolution.
2. Bias and Data Quality Introducing Debt.
3. Debt related to Scalability and Performance Optimization.
4. Difficulties with Complex Architectures for Maintenance.
5. Compatibility and Integration Debt.