

Pittsburgh, PA | (412) 844-1988 | sayakbanerjee022@gmail.com | [LinkedIn/sayak-banerjee/](https://www.linkedin.com/in/sayak-banerjee/) | [Google-Scholar/sayak-banerjee/](https://scholar.google.com/citations?user=U33333333333333333333) | [Github/sayak-banerjee](https://github.com/sayak-banerjee)

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- Developed an AI agent for task automation from natural language inputs, combining intent classification, structured code generation and LLM tool-use to execute personalized tasks such as **booking an Uber, finding restaurant tables**.
- Benchmarked Hugging Face foundation models with **Parameter Efficient Fine Tuning (LoRA)** and few-shot learning, **achieving 12% gains in task-specific accuracy** across diverse user intents compared to the baseline BERT-large model.