

# Sahil Jartare

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## EDUCATION

TEMPLE UNIVERSITY, College of Science and Technology – Philadelphia, USA

*Bachelor of Science*, Computer Science,

*Bachelor of Arts*, Economics

*Certificate of Specialization in Japanese*

Honors: Dean's List Fall 2023, Spring 2024

August 2021 – December 2025

## SKILLS

**Languages:** Python, C, Java, JavaScript, Typescript, HTML5, CSS, SQL, Linux

**Frameworks & Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Selenium, React, Springboot, NodeJS

**Developer Tools:** Git, Github, VS Code, Tableau, Power BI, GCP, AWS, Jira, Retool, Webflow

## PROFESSIONAL EXPERIENCE

Temple University

May 2025 – Current

**AI Research Scholar** | Full-time

Philadelphia, PA

- Implemented a Vision Transformer (ViT) + Vector Quantized General Adversarial Network (VQGAN) to solve Jigsaw puzzles with the goal of improving spatial reasoning capabilities of VLMs.
- Finetuned model to improve accuracy and precision by 20% by introducing patch masking at inference
- Designed automated pipelines for executing code on Modal.com cloud service

ManzanitaK.K

June 2024 – August 2024

**Data Science Intern** | Full-time

Tokyo, Japan

- Developed an automated Instagram scraper in Python using Selenium library to extract public user information
- Finetuned and optimized AI models like YOLO, NLPconnect and Salesforce BLIP to analyze 1200+ images for user behavior insights
- Designed automated data pipelines, integrating Pandas, NumPy, PIL, Matplotlib, improving dataset processing efficiency

## PROJECTS

**Sketch2Screen** | *Django, Node.js, Python, Typescript, ReactJS, Anthropic API*

- Lead a team of 5 developers to create an AI-powered collaborative web application that allows users with zero-coding experience to convert their hand-drawn sketches into production ready code
- Coordinated sprint planning and task allocation across the team using JIRA with Agile principles
- Engineered robust prompting workflows to process sketch images and generate accurate code outputs aligned with design specifications and user requirements.
- Implemented automated testing pipelines, including Pytest-based unit tests and Swagger/OpenAPI-driven API contract tests, to ensure system reliability and maintainability.

**ChefAI Web Application** | *Django, Python, JavaScript, ReactJS*

- Collaborated with 4 peers in an agile environment to develop a full-stack recipe generator using Django and SQLite, powered by LLaMA for recipe creation from user-selected ingredients or uploaded images.
- Applied prompt engineering techniques to structure model outputs into standardized recipe formats.
- Integrated Clarifai's open-source image classification model to detect ingredients in uploaded photos.
- Implemented a recipe export feature, enabling users to download outputs as PDF or JPG.

**Ticket Reservation Chatbot** | *LangChain, AlloyDB, Google Cloud Platform*

- Developed a cloud-native chat app using LangChain and AlloyDB AI with Retrieval-Augmented Generation (RAG) for automated reservation, information retrieval of airline tickets.
- Integrated AlloyDB vector search to power semantic retrieval and improve chatbot accuracy.
- Orchestrated LLM workflows with secure Google Cloud deployment for scalable AI automation.