

Shaurya Saini

shauryathemaster01@gmail.com | shauryasaini.dev | github.com/Shaurya-Saini

Experience

AI Engineering Intern, Priorise

June 2025 – July 2025

- Engineered a **MCP client-server architecture using FastMCP** that enabling AI Agents to autonomously query and reason over business **PostgreSQL databases**.
- Optimized agent execution loops** by filtering tool-call outputs to retain only relevant, verified results instead of full execution history — **reducing token consumption up to 70%** while preserving reasoning accuracy.
- Built and integrated a **FastAPI backend with a React frontend**, delivering a **client-ready agentic prototype** from spec to deployment.

[Certificate](#)

Projects

PrivGuard: Digital Privacy App

[GitHub](#)

- Led the development of a **Flutter-based privacy protection mobile application** that uses **on-device AI inferences** to detect sensitive information in images and text, with secure local data storage
- Fine-tuned and compressed a DistilBERT PII-detection model (96% accuracy, 80% size reduction)** for on-device inference, deploying via TensorFlow Lite at sub-1s latency
- Maintained the project as an **open-source IEEE-VIT repository**, mentoring contributors during **Hacktoberfest** and growing the project to +20 GitHub stars and 7 contributors.

Clairvoyance: Eye Gaze Prediction System

[GitHub](#)

- Real-time webcam-based Eye gaze prediction system**, that accurately identifies which positions on a 3*3 grid on the system monitor the user is looking at with <1s latency.
- Applied **transfer learning on MobileNetV2 deep learning model** using TensorFlow for image classification of both eyes achieving upto **80% accuracy** on a dataset of around 100 images.

Email Highlighter: ML Powered Chrome Extension

[GitHub](#)

- Developed a chrome extension to extract all college mails and classify and highlight them using **TensorFlowJS** and an custom **NLP text classification model** built using TensorFlow.
- Created a self-labeled dataset and performed data augmentation, preprocessing, training, and evaluation, and achieved **88%+ accuracy on unseen data**.

Skills

AI-ML: FastMCP, LangChain, Agent Orchestration, Tensorflow, Computer Vision, NLP

Technologies: FastAPI, PostgreSQL, React, Flutter, Chrome Extensions, Selanium

Developer Tools: Git, GitHub, Cloudflare, Render, Supabase, AWS

Languages: Java, Python, C++, TypeScript, SQL

Leadership Roles and Achievements

IBM Advanced Generative AI Certification

[Certificate](#)

Technical Head of IEEE-VIT

- Open Source Maintainer:** Own and maintain the **IEEE-VIT GitHub organization**, managing open source contributions, releases, deployments, pull requests and issues: [PrivGuard](#), [Checkmate Machine](#)
- IEEE Techloop Workshop (Speaker):** Held an open workshop on **EDGE AI-ML (training and deploying models on edge devices)** for VIT with **500+ participants**. [GitHub](#)
- Mentored 15+ student teams** guiding software architecture, Git workflows, code reviews, and deployment.
- Achieved **First position in IEEE Techloop Hack 2025** with around 50+ teams.

Education

VIT Vellore – BTech in Computer Science
CGPA 9.08

2023-2027