

Chetas Parekh

DL - GenAI Researcher and FullStack Software Engineer

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EDUCATION

Master of Science in Computer Science | San Francisco State University May 2026

Coursework: Analysis of Algorithms, Software Engineering & Deep learning GPA: 3.81

Gilead Innovation Initiative Summer Research Award - Granted \$5,000 to support faculty-mentored Deep Learning research.

BMC Scholarship - Earned a \$2,000 scholarship based on consistent academic achievements.

Aiming **three peer-review manuscripts** in preparation with faculty collaborators; submissions before graduation. (1 in Review)

Bachelor of Engineering in Computer Engineering | Gujarat Technological University Jul 2024

Coursework: Web Development, Artificial Intelligence & Operating Systems GPA: 3.98

EXPERIENCE

AI LAMP Lab Research Assistant | San Francisco State University Feb 2025 – Present

Emotion Detection Model (Multimodal) Python, PyTorch, Transformers, HPC

- Spearheading a 4-person team to develop the framework, aligning audio-visual inputs for sentiment analysis.
- Architecting 2 stream pipeline utilizing **ResNet-18**, designing cross-modal attention to integrate spatiotemporal features.
- Establishing theoretical foundations by reviewing **50+** papers to identify gaps in state-of-the-art fusion & detection techniques.

Graduate Research Assistant | San Francisco State University Aug 2025 – Present

Job Recommendation Bot for students Python, PyTorch, RAG, Qdrant, Next

- Driving a team, building AI-driven alignment engine connecting university curriculum data to workforce opportunities.
- Developing DL extraction models via PyTorch and QdrantDB; utilizing RAG to match student profiles to real-time job postings.
- Synthesizing 20+ papers regarding phrase matching; architecting transparent algorithms prioritizing metric-based scoring.

Graduate Assistant at CEETL | San Francisco State University Aug 2025 – Present

GenAI Preparedness for Teaching & Learning Project Python, Canvas LMS, NVivo, Teaching Squares, Box Admin

- Partnered with faculty from 60+ departments under federal grant, conducting 40+ interviews to Devise AI Readiness Audit Tool.
- Collaborating with Co-PIs and faculty champions to produce evaluation reports for dissemination at symposia and conferences.

Tutor at TASC | San Francisco State University Aug 2025 – Present

Doubt solving and Conceptual Understanding Problem Solving, OOP concepts, Java, Math, Data Analytics

- Delivering one-on-one tutoring sessions in CS, Math, and Data Analytics, improving student performance and retention.

Project Trainee (Data Engineer) | eInfochips Pvt Ltd Jan 2024 – Jul 2024

Data Analysis, Dashboards Design & GPT development Python, PowerBI, MS Azure, OpenAI & ServiceNow APIs, SQL

- Deployed data analysis pipeline MS Azure with integration of ServiceNow API to boost data fetch efficiency.
- Polished up data visualization impact by 30% and soothed process to extract data into CosmosDB, output to PowerBI.
- Led **GPT** development efforts for **ArrowGPT** as a contributor, incorporating APIs to reduce output latency.

Software & Systems Engineer (Internship) | FINCIPLINE Moneymart Pvt Ltd Apr 2022 – Dec 2023

Web App Development and System Security Optimization Java, MERN Stack, MySQL, Docker, AWS

- Facing usual downtime, managed AWS RDS with automated backups, optimized queries, boosting performance 31.56%.
- Confronted low adoption, facilitated **5000+** user registrations, onboarded **2000+** clients, expanding broader geographic reach.
- Streamlined releases, containerized microservices with Docker and orchestrated CI/CD pipelines, achieving reliable deployments.
- Recognized as an **Employee of the Month** at FINCIPLINE, considering employee performance evaluation report.

Front-end Developer Intern | TechnoBrains Business Solutions LLP Feb 2022 – Mar 2022

Invoice Management System ReactJS, CSS, Laravel, MySQL, SQL Server

- Collaborated with a group to construct a web app using ReactJS & Laravel, meeting client needs for seamless invoice generation.
- Improved efficiency by 36.8%, contributed the client becoming a permanent partnership with TechnoBrains.

PROJECTS

Sudoku Solver [GitHub](#) [Website](#) Python, PyTorch, FastAPI, OpenCV, Next Aug 2025 – Dec 2025

- Designed a CNN model using PyTorch and EMNIST, optimizing hyperparameters to achieve digit recognition accuracy.
- Engineered a FastAPI backend with OpenCV to autonomously detect, segment, and rectify Sudoku grids via thresholding.
- Orchestrated end-to-end development, integrating automated data pipelines and a React frontend with the deep learning engine.

SKILLS

Languages: Python | Java | JavaScript | C++ | SQL | PHP | Go | TypeScript

Frameworks: Django | Flask | PyTorch | React | Node | Express | Next | Spring | JavaFX | GraphQL | Laravel

Platform/Tools: AWS (RDS, EC2, S3, Lambda) | Docker | RESTful APIs | MS Azure | MS Power Automate | UI Path | CI/CD

Open Source: LLMs (Google, Llama, Claude, OpenAI) | Crew AI | Colossal AI