# Prateek Sharma

**□** prateeksharma1809@gmail.com
 **□** 603-322-1527
 **□** linkedin.com/in/prateek-sharma18
 **○** New York

github.com/prateeksharma1809 @ prateeksharma18.netlify.app

#### WORK EXPERIENCE

#### Sentari Al, Tech Lead-Intern

Jun 2025 - Present | NY, USA

- Led full-stack development of a privacy-first journaling platform, integrating LLMs, Whisper transcription, and embeddings-based semantic search.
- Architected scalable backend (FastAPI, PostgreSQL, Supabase) and iOS app (React Native, Expo) with features like infinite scroll, calendar tagging, and multilingual detection.
- Implemented Dockerized deployment, secure authentication, and automated insights while establishing engineering standards for scalable team delivery.

#### Tilaverse Inc., Software Development Lead- Intern

May 2024 - Aug 2024 | NY, USA

- Directed a team of 4 developers to construct a new application using the React framework with Redux and a Python Django backend, facilitating seamless microservices integration on AWS, and accelerating project delivery by 20%.
- Architected and deployed a cutting-edge tech stack, incorporating Docker for containerization, MongoDB, and PostgreSQL for databases. Established secure service communication through REST APIs and JWT tokens, boosting development efficiency by 30%.
- Collaborated with DevOps and Data Science teams to synchronize their endpoints within the app, ensuring efficient service interactions that elevated overall system performance and reliability by 25%.

#### **Amdocs**

Advanced Software Developer

Jun 2021 - May 2022 | Pune, India

- Championed the creation and rollout of two innovative Microservices for product price discovery, employing Java and Kafka to cut runtime by 40%, thereby enhancing efficiency by 20%.
- Led the technical evaluation and recruitment of over 30 candidates, augmenting the Microservices team's skill set in Java and SQL by 50%.
- Devised and implemented project-specific training programs and mentorship strategies for new hires, driving a 30% rise in team productivity through enhanced knowledge transfer and effective use of tools like Git and Jenkins.

Software Developer

Nov 2018 - Jun 2021 | Pune, India

- Enhanced and maintained the front end of a web application using JavaScript, React-Redux, and SCSS, achieving a 25% uplift in user satisfaction, and enabling clients to place orders efficiently.
- Engineered and refined several APIs utilizing Java Spring Boot, Kafka messaging, Swagger, XML, REST APIs, and Apache POI, leading to a 30% boost in backend performance and a streamlined data migration process.
- Developed and optimized SQL queries in the Oracle database for data extraction and analysis, reducing workflow bottlenecks by 20%, thereby improving cross-team collaboration.

#### Infosys

Software Developer and Tester(Data Analytics and Automation)

Jan 2016 - Nov 2018 | Pune, India

- Leveraged SQL, MySQL, Oracle SQL, XML, and CSV to manipulate data across diverse datasets, successfully extracting and loading data into HIVE, ensuring seamless data flow and accessibility for analytical processing.
- Innovated a Java application to automate quality assurance processes for data integrity post-transformation and loading, enhancing data accuracy and reliability by 40%
- Optimized data handling procedures for extensive datasets with varying formats through Java programming, improving operational efficiency by 30%, and making data more accessible for analytics applications.

Systems Engineer (Education, Training & Assessment)

Aug 2015 – Jan 2016 | Mysore, India

- Partnered with cross-functional teams to integrate state-of-the-art technologies into the training curriculum, reducing onboarding time for new employees by 25% and boosting overall departmental productivity by 30%.
- Developed a custom C# tool to streamline scheduling processes for educational sessions, cutting down conflicts and inefficiencies by 50%, ultimately saving the organization \$100K in operational costs.

# **PROJECTS**

# Internal Chatbot with Role-Based Access Control,

Apr 2025 - Jun 2025

Al Engineering Project | FinSolve Technologies

- Engineered a RAG-based chatbot using FastAPI, GPT, and Qdrant to enable secure, role-specific document querying for Finance, HR, Engineering, Marketing, and Executive teams, eliminating cross-functional data silos.
- Developed modular authentication and authorization layers with HTTPBasic and RBAC, ensuring controlled access to sensitive departmental documents like financials, architecture, and employee data.
- Designed an intuitive Streamlit-based front-end and implemented NLP-powered query handling to deliver real-time, contextual responses with reference-backed document citations.

#### AI-Powered Blog Post Generator with Daily Automation

Jun 2025 - Jun 2025

- Developed a REST API that accepts a keyword and returns a structured, affiliate-ready blog post using GPT-4o
- · Mocked SEO metrics (search volume, difficulty, CPC) to simulate real-world keyword scoring

• Automated daily blog generation using APScheduler and containerized the app with Docker for consistent deployment, Exposed generation endpoint and results via JSON API; saved output in Markdown format

#### Image Enhancement with UNet and Dlib

Jan 2025 - May 2025

- Designed an Al-powered tool to isolate and enhance facial regions, replacing backgrounds with custom or clean white backdrops.
- Trained a UNet segmentation model and combined it with Dlib facial landmarking for precise cutouts.
- Delivered production-ready outputs ideal for ID photos, professional portraits, and product catalogs.

#### Real-Time Face Recognition with YOLO

Sep 2024 - Dec 2024

- Developed a real-time facial recognition system using YOLOv5 for object detection and OpenCV for frame-level streaming.
- Fine-tuned the model with custom face data to enhance accuracy in controlled environments.
- Achieved sub-second detection latency and integrated model deployment for real-world testing.

#### Data Analyst, Election Data Insights for AtliQ Media

May 2024 - Jul 2024

- Spearheaded an in-depth analysis of 2014 and 2019 Lok Sabha elections data using Python and pandas, leading to a 30% enhancement in data accuracy and visualization clarity.
- Uncovered key insights, such as a 25% shift in voter preferences, and identified top constituencies with the highest NOTA votes, deepening the understanding of electoral patterns.

#### **Unveiling E-Commerce Customer Behaviors**

Feb 2024 - Apr 2024

- Orchestrated the analysis of a 50 GB dataset on an eCommerce platform to identify customer behavior patterns, optimizing targeted marketing strategies and personalizing customer experiences.
- Applied advanced data analytics techniques, including machine learning algorithms, to segment customers and predict purchasing behaviors, driving a 50% increase in sales conversions.
- Built and deployed a dynamic dashboard using Python, PostgreSQL, NumPy, Seaborn, Matplotlib, and Pandas, offering real-time insights into customer trends.

TCC Scheduler Jun 2023 – Oct 2023

- Created a robust mentor-mentee matching algorithm using React JS, J2EE, and MySQL, resulting in a 70% rise in successful matches and connections within the system.
- Designed an intuitive interface for the automated scheduling system, reducing manual intervention by 80% and saving an estimated 15 hours per week for administrative staff.
- Streamlined data management by integrating real-time feedback mechanisms into the system, leading to a 50% improvement in mentor-mentee communication and engagement levels.

#### **EDUCATION**

#### Rochester Institute of Technology,

Aug 2023 - Dec 2025

Master of Science, Computer Science (GPA 3.9/4)

### Rajasthan Technical University,

Aug 2011 - Jul 2015

Bachelor of Technology in Electronics and Communications (GPA 3.6/4)

## **TECHNICAL SKILLS**

- Languages: Python, Java, SQL, React, JavaScript, TypeScript
- ML & Data Tools: PyTorch, TensorFlow, Scikit-learn, OpenCV, NumPy, pandas, Jupyter Notebook, Vector Database
- Cloud & DevOps: AWS (EC2, RDS, EFS, ELB), Docker, Jenkins, Git, FastAPI
- Frameworks: Redux, Spring Boot, Django
- Databases: Postgres, MySQL, MongoDB, Oracle
- Other: REST APIs, Kafka, Dlib, Prompt Engineering, Linux, WebSocket