

# Prasanth Thiagarajan

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## EDUCATION

### Bachelors of Eng. in Computer Science, KCG College of Technology

Expected Jun 2025

*Algorithms, Data Structures, OOPs, Computer Network, Data Science(Hons.)*

Chennai, IN

### High School, NSN Memorial School

Apr 2021

*Senior Secondary (XII) - Science*

chennai, IN

## WORK EXPERIENCE

### ProfCess

Remote

*Data Science Intern*

Aug 2024 – Present

- Developed ML models improving recommendation accuracy by 15%, and automated data refresh processes using PySpark, reducing downtime by 30%. Built dashboards in Tableau to track business KPIs, cutting reporting time by 25% and improving decision-making efficiency. Integrated predictive models into operational systems using Flask, enhancing real-time decision-making.

### Aetheris

Pune, IN

*Co-Founder - AI Developer*

Sep. 2022 – Present

- Developed AI models to enhance diagnostic accuracy for radiology by 18%, collaborating with hospitals for data governance and compliance. Reduced data processing latency by 22% through optimized AI pipelines and distributed model training using TensorFlow and Keras.

### Andiran Health Tech

Chennai, IN

*Full Stack Developer*

Jan. 2022 – Aug. 2022

- Developed a full-stack telemedicine application using Node.js and Flutter, enabling real-time communication between patients and doctors. Improved database query efficiency by 15% using Neo4j for complex medical relationship analysis, enhancing data retrieval speed.

### Ubiquitous Infinity Network Pvt. Ltd.

Chennai, IN

*Software Development Engineer Intern*

Nov. 2021 – Dec. 2022

- Developed APIs using Golang, improving server response times by 25%, and optimized PostgreSQL queries, enhancing performance by 18%. Implemented Redis caching strategies, reducing database call volume during peak usage periods, and improving system scalability.

## PROJECTS

### Real-Time Sentiment Analysis & Negotiation AI

FastAPI, GPT-4, Pinecone, Elasticsearch

- Developed a sentiment-driven negotiation AI system, improving client satisfaction by 12% and reducing response time by 30% using Elasticsearch and Pinecone.

- Designed a React-based front-end to integrate AI with customer service platforms, enhancing usability and adoption.

### Campus Link College ERP System

React, Node.js, MongoDB

- Built an automated ERP system for managing student records and attendance, improving administrative efficiency and providing real-time data insights.

- Enhanced data storage using MongoDB for scalability, and designed an admin interface for real-time monitoring and request handling.

### V2T - Voice to Text Application

Flutter, PyTorch, FastAPI

- Integrated TensorFlow models to improve speech recognition in noisy environments, ensuring accurate text conversion across various accents and speech patterns.

- Built a backend with FastAPI for efficient data processing and storage, utilizing SQLite for local data management and Firebase for cloud synchronization and text export functionality.

## TECHNICAL SKILLS

**Languages:** Python, Java, C, JavaScript, SQL, HTML/CSS, Flutter

**Frameworks:** Node.js, React, Flask, TensorFlow, PyTorch, Django

**Tools:** Git, Docker, Kubernetes, Jenkins, MLflow, Airflow, AWS, GCP, Hadoop

**Databases:** PostgreSQL, MongoDB, Neo4j, Redis

**Machine Learning:** Supervised/Unsupervised Learning, NLP, CNNs, Transfer Learning, Reinforcement Learning