

# Prashant Bhargava

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## Experience

### IEEE Computational Intelligence Society LPU

#### Software Developer

April 2024 - Dec 2024

- Built scalable full-stack and ML-integrated applications using **MERN**, **Go** and **Streamlit** under IEEE CIS, contributing to **patents** and **research publications** as an **IEEE certified member**.

## Projects

### Proto Query Search Engine

Jan 2025 - Feb 2025

| *Go, gRPC, MongoDB, REST API, Protobuf, CORS*

- Engineered a high-performance question search engine using **Go**, **gRPC** and **MongoDB** with **vector-based searching** achieving a **99.99% uptime** and reducing query retrieval time by **60%** in the initial deployment phase.
- Designed a **dual-layer API** integrating **gRPC stubs** and an **HTTP REST gateway**, optimizing inter service communication and increasing request handling efficiency by **40%** through concurrency.

### MinAI Pdf Based Conversational Chatbot

Jun 2024 - Aug 2024

| *Python, Llama 2, LangChain, MongoDB, FAISS*

- Built an **AI-powered PDF chatbot** enabling **real-time answers** through **document-based querying** and NLP, achieving an **85% accuracy** in extracting relevant information.
- Developed with **Python**, **LangChain**, **FAISS** and **MongoDB**, integrating **Google Generative AI Embeddings** to enhance response **human-likeness by 70%**.
- Designed an interactive **Streamlit** web app with dark/light mode and **multi-PDF support** for a seamless experience.

### NIRAAMAYAA - Healthcare Management System

Apr 2024 - Jun 2024

| *ReactJS, NodeJS, ExpressJS, MongoDB*

- Developed a **healthcare management system** integrating **RFID Health Cards**, **QR-based prescriptions** and **centralized medical records**, improving patient-doctor interactions by **40%**.
- Engineered using **ReactJS**, **NodeJS**, **ExpressJS** and **MongoDB**, implementing JWT authentication, OTP verification and **REST APIs** to ensure **99.9% secure data handling**.
- Integrated **Google Maps API**, email-based medicine reminders and an **AI-powered chatbot**, automating patient support and increasing accessibility by **60%**.

## Achievements

### Google Nibbler's Project

Sept 2024 - Jan 2025

#### (AI Platform Testing)

| *AI, ML, Adversarial Testing, Image Processing*

- Collaborated with **Google** to test and optimize the **AI-based** image generation platform, **Google Nibblers**, conducting **adversarial testing** to enhance model robustness and improve image generation quality.

### Analysis and Optimization of the PCOS Patients Using Machine Learning Model

Aug 2024 - Dec 2024

#### (Book Chapter)

| *ML, Python, Data Analysis*

- Co-authored a book chapter on **ML** in **Next Generation Computing Techniques for Biomedical Applications**.

### Smart Food Waste Monitoring System

Nov 2022 - Feb 2023

#### (Patent Published)

| *ReactJS, NodeJS, ExpressJS, MongoDB, AI, IOT*

- Secured a **published patent** for designing an advanced **Food Waste Monitoring System**, leveraging RFID/QR-tagged utensil tracking, **color-based detection sensors** and a central database, reducing food waste by **85%**.

## Technical Skills

**Languages & Algorithms:** C, C++, Python, Go, Java, Linux, DSA

**DevOps & Tools:** Git, Docker

**Databases:** MongoDB, SQL, PostgreSQL

**Web Stack:** React.js, Node.js, Express.js, gRPC, Tailwind CSS

## Certifications

### NPTEL Cloud Computing Certification

Jul 2024 - Oct 2024

## Education

**Lovely Professional University, Jalandhar**

B.Tech in Computer Science and Engineering

Expected graduation date: Aug 2026

**CGPA: 7.79/10**