

Preetham Noel P

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EDUCATION

Christ University

Bangalore, India

BTech - Computer Science (Data Science), Honours in AI & ML

2022 – 2026

- CGPA: 9.82 / 10 | Meritorious Scholarship Recipient

TECHNICAL SKILLS

Languages: Python, Java, SQL, Go

AI: LLMs, RAG, LangChain, LangGraph, LLM Evaluation (OpenAI Evals), NLP, AI Observability, Transformers, Context Engineering

Frameworks: FastAPI, Pandas, NumPy

Database: PostgreSQL, MongoDB, MySQL

DevOps & Tools: GitHub Actions, Docker

Product & Analytics: Product Management, User Research, A/B Testing

EXPERIENCE

GrayMatter Software Services

Bangalore

AI Product Engineer

Apr 2026 - Present

- Designed and built the database schema and API layer for Lipi, an LLM-powered travel agent, defining communication between the AI backend and product frontend; integrated and tested TBO travel APIs with the team.
- Implemented multi-agent orchestration with intent-aware routing, enabling dynamic handoffs between specialized agents (flights, hotels, itinerary planning) while preserving context across user workflows.
- Built a PR automation pipeline using Python and GitHub Actions, and led architecture design for an SDLC AI Agent system, defining backend, APIs, testing, and prompt workflows for lifecycle automation.

GrayMatter Software Services

Bangalore

AIML Intern

Jan 2026 - Apr 2026

- Mapped user personas, designed UI flows, and defined interaction scenarios for Lipi across 15+ user journeys, used directly as the basis for engineering requirements.
- Produced demo videos for the initial product walkthrough and helped bridge product concepts into technical specs, enabling smoother handoff between design and development.

GeekTrust

Bangalore

Full Stack AIML Intern

May 2025 - Nov 2025

- Integrated OpenAI Evals for automated end-of-day LLM benchmarking, improving overall interview experience quality by 30%.
- Built an MCP-driven retrieval tool automating manual data workflows for the account management team, reducing manual effort and processing time by 50%.
- Built and designed APIs for a FastAPI-based interview anomaly detection and reporting platform, extending existing APIs with additional parameters and developing new endpoints for flagging session irregularities.
- Built an AI agent for automated interview question generation, reducing manual question curation effort for the team.

TringBox

Remote

Data Science Intern

Apr 2025 - May 2025

- Prototyped a Hugging Face TTS pipeline to explore feasibility of an AI-driven music and lyrics generation feature.
- Designed a MySQL + MongoDB hybrid storage layer for the song selection model, optimising for mixed structured and unstructured data access patterns.

VRNC - Virtual Research & Consultancy

Remote

Data & AI Intern

May 2024 - Jun 2024

- Researched information extraction and retrieval approaches to support data integration across the sustainability ecosystem, contributing findings to internal research workflows.
- Assisted in building internal data tooling to streamline sustainability reporting, supporting the team in aggregating and analysing clean tech data.

Riskcovry

Bangalore

Engineering Intern

Apr 2024 - May 2024

- Built an automated issue ticketing system using GPT and token chunking to classify issue types and route them to the appropriate support channels, reducing manual triaging effort.
- Fine-tuned GPT-4 prompt chains using variance tracking, improving LLM output consistency by ~18% and reducing manual review of AI-generated content.

PROJECTS

AI-Powered Resume Screening & Interview Platform - GeekTrust

Python, OpenAI Evals, NLP

- Added candidate ranking and interview question generation as new features to an existing hiring platform.
- Integrated OpenAI Evals framework to benchmark LLM output quality across screening and generation tasks, enabling continuous performance monitoring and regression detection.
- Reduced manual screening time by automating shortlisting logic - enabling recruiters to review ranked candidates instead of raw applicant pools.

LANA - Load, Analyze, and Advance

Python, MongoDB, Pandas

- Built a local AI data analysis tool in Python (FastAPI + Ollama) where users upload a CSV, Excel, or JSON file and query it in plain English - the LLM runs fully on-device, no internet or cloud account needed.
- Engineered a data cleaning pipeline that automatically scans uploaded datasets for duplicates, missing values, outliers, and inconsistent text, previews what will change, and applies fixes only after user confirmation.
- Developed the analytics backend covering statistical profiling, linear regression, and chart generation (matplotlib), with one-click export to PDF, Word, and CSV.

Intelligent Banking Assistant - South Indian Bank Case Study (In collaboration with Christ University)

Python, SQL, Power BI, NLP, scikit-learn

- Engineered automated alert triggers surfacing negative sentiment trends and anomalous complaint spikes to operations teams in real time.
- Built a query-driven decision platform for credit card issuance, enabling data-backed eligibility assessments through natural language queries.
- Developed an NLP query interface enabling bank staff to extract customer feedback insights, backed by a text classification pipeline for intent detection.

Website for Orphanage with ML-Backed Feedback & Insights (Christ University)

Python, FastAPI, HTML/CSS, MongoDB, Docker, Generative AI (LLMs)

Built a responsive web platform for an orphanage enabling donation forecasting, volunteer engagement classification, and real-time activity tracking.

RESEARCH & PATENTS

AI-Driven Cyberbullying Detection & Intervention - Hybrid LSTM-BERT Architecture

Patent | Intellectual Property India | 2024

Hybrid deep learning architecture combining LSTM sequence modelling with BERT contextual embeddings for real-time cyberbullying detection and automated intervention.

Optimizing Healthcare Towards a Beneficial Future with Cutting-Edge Medical Solutions

Patent | Intellectual Property India | 2024

Framework integrating Data and AI models to deliver predictive diagnostics and personalised treatment recommendations.

Performance Analysis of CPU and GPU Processors Using Advanced Data Analysis Techniques

MIT ETMCIS 2024 | Springer

PUBLICATIONS

Statistical Data Analysis of Anticorrosion and Antifouling: Unveiling Insights from Performance and Trends

John Wiley & Sons | 2024

Portable and Automated Healthcare Platform Integrated with IoT Technology

John Wiley & Sons | 2024

OPEN-SOURCE CONTRIBUTIONS

- Hugging Face Diffusers (PR #13929)
- Alibaba: open-code-review (PR #168 · Merged)
- Also contributed to Microsoft, Google and Meta PyTorch open-source repositories.

EXTRA CURRICULAR / AWARDS

Head of Data Science - ASCII, Christ University

Club Lead

Led 10+ workshops and trained 100+ students, improving technical proficiency by 18% across the data science cohort.

Hackathons

Finalist

Finalist at J.P. Morgan Hackathon and Smart India Hackathon; shortlisted in 5+ of 10+ national hackathons.

Certifications

Google Cloud Digital Leader | Microsoft Azure AI Fundamentals (AI-900) | NPTEL Project Management - Top 5%, IIT Roorkee (83%).