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Praadnya H



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Bengaluru, India

Passionate about **Web & API Development**, **Databases**, and building scalable backend systems.
Enthusiastic about **GenAI**, **NLP** and **AI/ML**, **Data Analytics** and solving **picoCTF** puzzles!

EDUCATION

Bengaluru	PES University	Dec 2021 - Present
B.Tech. in Computer Science Engineering.		CGPA: 9.06

WORK EXPERIENCE

SDE Intern	CARS24	Jan 2025 – Current
<ul style="list-style-type: none">AI-powered loan assistance chatbot: Built microservices following OOPs with SpringBoot and FastAPI and utilized MongoDB, MySQL and Redis databases for three types of chatbots with appropriate security measures using JWT and logic for chat history and auditing.High-Revenue Third-Party Integration: Engineered ₹1 crore revenue-generating integration with 70% performance optimization (10s to <3s response time) through parallel execution, shadow testing, and OOP design patterns implementation.Database Migration & Analytics: Led audit log restructuring and database migration project, enabling advanced analytics capabilities while maintaining system integrity across multiple database environments.Data Science Team Enablement: Onboarded data science team to automated CRON job scheduling system, eliminating technical dependencies and streamline workflow operations through intuitive system design.Revenue-Driven Policy Enhancement: Modified loan disbursement policy framework resulting in ₹0.1 crore additional revenue generation through strategic algorithm improvements and business logic optimization.		
Intern	Intel	Jun 2024 – Aug 2024
<ul style="list-style-type: none">Performance Optimization: Improved Gaudi GPU card performance, increasing throughput by 20% and reducing latency by 1s through concurrency and TGI parameter analysis.Government Circular Analysis: Implemented OCR and NER for parsing Government Circulars by annotating government circulars and stored data, embeddings in GraphDB, VectorDB respectively.Full Stack Development: Developed a full stack solution following MVC structure with a MySQL database, FastAPI backend and frontend interface using ReactJS for managing student, project, mentor, and organization data.		
Artificial Intelligence Intern	Infosys	Sep 2023 – Nov 2023
<ul style="list-style-type: none">Automated Documentation Tool: Created a Java method description generator leveraging transformers for code analysis.NLP and Code Analysis: Utilized ANTLR4, javalang and NLTK for Java code tokenization, producing precise method descriptions in structured Word documents.		
Summer Intern	Indian Institute of Science	Jun 2023 – Sep 2023
<ul style="list-style-type: none">Comparative Insertion/Deletion Analysis for data structures: BST, AVL, SkipList were analyzed over languages like Python, C, Java.EDM Conference: Volunteered at the Education Data Mining Conference and served as an ambassador.		

PROJECTS

- Multimodal Advertisement Generator(05/2024 – 10/2024):** Fine-tuned BART for caption/tagline generation and built a React-Django interface with intelligent video selection using TF-IDF, RoBERTa, and MiniLM.
- Psychometric Games(10/2024):** Designed and developed a set of **six** games to test **cognitive** skills of players. Leveraged **ReactJS**, **FastAPI**, **Neo4j** and performed **data-analytics** using stored metrics.
- CuisineCompass (09/2024):** Built a restaurant discovery app with image-based search (SWIN), MongoDB, FastAPI, React, and Tailwind, featuring advanced filters and geolocation.
- Vanamala Clinic Website (06/2024):** Developed a live full-stack site with React and FastAPI, enabling OTP login via Twilio and smooth navigation across clinic services.

CERTIFICATIONS

- Google Data Analytics Professional Certificate (Coursera): **BigQuery**, **R**, **Python**, **Tableau**, **MS Excel**

ACHIEVEMENTS AND AWARDS

- Best Paper Award, ICRIET 2025 – “ANIMATRIX: Personalized Multimodal Content Generation for Advertising”**
- MRD Scholarship(x6):** Prestigious award for the top 25% of students for exceptional semester GPA performance.
- Lake Conference Paper Presentation:** Placed 2nd in the paper presentation round.

SKILLS

- Tech Stack:** Python, Java, HTML, Spring Boot, Flask, FastAPI, ReactJS, MySQL, MongoDB, Redis, Neo4j
- Dev Skills:** REST APIs, JWT/OAuth, JUnit, Prometheus, Grafana, Jenkins, GitHub Actions, CI/CD, Secure API Design