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

## 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