

Piyush Singhal

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EXPERIENCE

Web Development Intern

June 2024 – August 2024

The Sparks Foundation

Remote

- Developed and deployed a secure full-stack banking web application using **HTML**, **CSS**, **JavaScript**, and **MySQL**, enabling user authentication, transaction history, and balance tracking functionalities.
- Integrated robust authentication mechanisms and encrypted transaction workflows, enhancing application security and safeguarding user data against vulnerabilities.
- Optimized backend logic and SQL queries, achieving a **30% improvement in database response time** and system performance.
- Leveraged **GitHub** for version control to streamline development workflows, enabling seamless team collaboration through effective use of branches, pull requests, code reviews, and issue tracking.

PROJECTS

YouTube Comment Sentiment Analysis Platform | [GitHub Link](#) [Website Link](#)

- Built an NLP-powered sentiment analysis platform using **Python**, **Google Colab**, and **Anvil**, achieving **92% accuracy** in classifying YouTube comments.
- Integrated **YouTube Data API** to fetch and process **1000+** comments, optimizing calls to cut latency by **40%**.
- Developed a real-time sentiment dashboard with **Anvil UI** and **Matplotlib** to visualize sentiment trends. Integrated **TextRank** for key topic extraction, enhancing interpretability.
- Optimized **Google Drive API** storage and **Docker** deployment, reducing processing overhead by **35%**.

PDF Chat Application Analysis | [Github Link](#) [Website Link](#)

- Developed an AI-powered assistant using LangChain and LLMs to answer questions based on the provided PDF document with high accuracy.
- Implemented **PyPDF2** for high-precision PDF text extraction and leveraged **FAISS** for low-latency, context-aware semantic search, enabling rapid and accurate document querying.
- Enhanced document analysis with **AI-driven** PDF Q&A, improving accuracy and user productivity.
- Built a user-friendly Streamlit interface with real-time query support and seamless multi-tab navigation for an enhanced user experience.

Personal Portfolio Website | [GitHub Link](#) [Website Link](#)

- Designed and deployed a fully responsive personal portfolio website using **HTML5**, **CSS3**, and **JavaScript**, achieving a **40% reduction in page load time** through performance optimization techniques.
- Implemented a dynamic and reusable **React.js** navigation bar with smooth scrolling, active link tracking, and route-based rendering to enhance user flow and accessibility.
- Boosted user engagement by **25%** through interactive UI/UX features including animated hover effects, contextual tooltips, and scroll-triggered animations using **CSS transitions** and **JavaScript event listeners**.

EDUCATION

NIMS University

Jaipur, India

Bachelor of Technology in Computer Science(2nd Year), CGPA: 9.33/10

2023 – 2027

ACHIEVEMENTS

- Solved **500+ DSA problems** across coding platforms, honing algorithmic thinking and technical proficiency.
- Secured **All-India Rank 83** in Codechef contest starter 184 (2025) among 20000+ participants.
- Participated in the **Face Recognition System Hackathon at IIT Indore, Fluxus 2025**, developing a real-time facial recognition solution for employee entry management.
- Have a rating of **1600+**, **1600+** on the CodeChef and Codeforces Coding platforms respectively.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, AI/ML, JavaScript, SQL, LLM, NLP

Development: React.Js, Node.Js, RestfulAPIs, HTML, CSS, Bootstrap

Tools: Git, Github, Google Cloud, Kubernetes, Google Collab, Sentiment Analysis, Streamlit, AWS

Other: Data Structures and Algorithms, Object Oriented Programming, DBMS