

# 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 **300+ DSA problems** across coding platforms, honing algorithmic thinking and technical proficiency.
- Secured **All-India Rank 503** in Codechef contest starter 170 (2025) among 40000+ 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+**, **1200+** 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, Flask, Streamlit, AWS

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