Piyush Singhal

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EXPERIENCE

Software Development Intern   June 2024 – August 2024
The Sparks Foundation   *Remote*

- Implemented secure transaction processes and authentication to enhance data protection and security.
- Optimized full-stack development and database queries, significantly improving performance and efficiency.
- Mastered GitHub version control, improving collaboration through effective branching and merging workflows.
- Contributed to team projects, driving development efficiency and ensuring high-quality code delivery.

Web Development Intern   March 2024 – May 2024
Oasis Infobyte   *Remote*

- Developed a user-focused travel platform using modern front-end technologies, boosting usability and aesthetics.
- Curated and deployed personal projects utilizing version control systems (Git) and showcased them through an interactive portfolio, expanding my professional network.

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 a fully responsive portfolio using **HTML, CSS, JavaScript**, improving page load speed by **40%**.
- Developed a seamless navigation system with a dynamic **React.js** navbar, smooth scrolling animations, and interactive UI elements.
- Used **Google Analytics** to track user behavior, optimizing engagement and increasing session duration by **30%**.
- Enhanced UX with **tooltips, hover effects**, and **smooth animations**, increasing user interaction by **25%**.

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.
- 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, Docker, AWS
Other: Data Structures and Algorithms, Object Oriented Programming, DBMS
Soft Skills: Strong Communication, Leadership, Teamwork, Problem-Solving, Debugging, Decision Making