Piyush Singhal

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EXPERIENCE

Software Development Intern   June 2024 – August 2024
The Sparks Foundation   *Jaipur, India*
- 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.
- Integrated real-time data handling and robust error protocols, ensuring high performance and reliability.
- 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 | Github Link Website Link
- Built a YouTube comment analysis tool using Google Colab and Anvil, integrating the YouTube API to fetch comments and analyze whether a video is perceived as good or bad based on user feedback.
- Deployed on Anvil with real-time interaction and seamless Google Drive integration for storing analyzed data.
- Added features to display comment sentiment breakdown and highlight key topics for deeper insights.
- Fine-tuned machine learning models to improve sentiment detection accuracy and provide clear insights into audience reactions.

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.
- Integrated PyPDF2 for extracting content from PDFs and FAISS for fast, context-aware response generation.
- Enabled the application to answer any question related to the PDF, delivering exceptional user experience and productivity for document analysis.
- Built a user-friendly Streamlit interface with real-time query support and seamless multi-tab navigation for an enhanced user experience.

Personal Portfolio | Github Link Website Link
- Crafted an intuitive navigation system with a responsive navbar and smooth scrolling animations.
- Incorporated user feedback mechanisms, including tooltips, hover effects, and interactive buttons, to enhance engagement and user interaction.
- Integrated analytics tools to track user interactions and improve user experience continuously.

EDUCATION

NIMS University   Jaipur, India
Bachelor of Technology in Computer Science(1st Year), CGPA: 9.26/10   *2023 – 2027*

Relevant Courses: Data Structure and Algorithms, OOPs, OS, DBMS, C/C++, Web Development, AI/ML, NLP, Python, Java, Language Learning Model, Bootstrap.

ACHIEVEMENTS

- Solved **1200+ problems** across various coding platforms, honing algorithmic thinking and technical proficiency.
- Secured **All-India Rank 528** in Codechef contest starter 170 (2025) among 40000+ participants.
- Have a rating of **1600+, 1600+** on the CodeChef and GFG Coding platforms respectively.

TECHNICAL SKILLS

Languages: C/C++, Python, Java, Web Design, Bootstrap, DSA, OOPS, DBMS, AI/ML, React/Next.Js, LLM, NLP
Developer Tools: Git, Github, Google Cloud, Kubernetes, Google Collab, Sentiment Analysis, Flask, Streamlit