Sankalp Sahu

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🎓 EDUCATION

Bachelor of Technology(Computer Science Engineering)

SRM Institute of Science and Technology
Kattankulathur, Chennai, Tamil Nadu
Sept 2022 - Present*

Schooling-
D.A.V. Vasant Vihar , Bilaspur , Chhattisgarh
July2020 – May 2022

Tata D.A.V. Public school, Sonadih, Chhattisgarh.
Apr 2007-2020

💼 PROFESSIONAL EXPERIENCE

App Development Intern :
Skillvertex
January 2024 to March 2024 |
- Bangalore , India

- Built and deployed mobile and web applications
- with focus on real-world problem-solving. Gained hands-on experience in Firebase
- integration for authentication, database, and
- cloud services.
- Applied UI/UX design principles, software engineering concepts, and responsive design practices.
- Worked on assignments and projects that strengthened full-stack app development skills

📋 COURSES

Java Masterclass By Tim Buchalka , NPTEL in Programming in Java, LangChain & Gen-AI (Udemy), AWS Academy Machine Learning Foundations, IIRS ISRO Geodata processing with ML, DSA in C ++ by Abdul Bari (Udemy), Web Development with HTML, CSS and JS.

🌐 LANGUAGES

Hindi : First Language
English : Advanced Level
Spanish : Basics Learning State

📑 PROJECTS

Conversational AI Companion
Developed an engaging conversational bot using LangChain and OpenAI to deliver an interactive user experience.

Hindi Sentiment Analysis with Stress Reduction | Python, Scikit-learn
Developed a Hindi sentiment analysis model using TF-IDF and Naive Bayes.
Implemented text preprocessing for Hindi script to improve accuracy.
Integrated stress-reduction tips for negative sentiment detection
Built and deployed an interactive Gradio web app for real-time predictions.

Legal Contract Analyzer | NLP, Transformers, Gradio
Built an AI-powered tool to summarize contracts, extract key clauses, and generate questions (MCQ, one-word, long-form).
Implemented answer evaluation with BERTScore and auto-correction via text generation models. Designed a Gradio-based UI for legal students, professionals, and educators to analyze and review contracts efficiently. Utilized Transformers, BERT, Scikit-learn, NLTK, PyMuPDF for NLP tasks and PDF parsing.

🧠 SKILLS

Data Structures *(Arrays, Stacks, Maps, Queue, Heap, Linked List, Tree)*
Algorithms *(Sorting, Searching, Dynamic Programming, Recursion, Greedy and Graph(DFS and BFS))*

Python *(Core, Building APIs FastAPI,Machine Learning, OpenCV.)*

Java(Core, Object oriented programing in Java, APIs, Spring Framework, Java EE)
***Application Development**(in Kotlin , Intermediate level in Flutter,Firebase Integration (Realtime Database, Authentication, Cloud Firestore),Backend as a Service (BaaS) using Firebase).*

Editors and Tools *(Jupyter Notebook, Git, Azure DevOps, Microsoft VS Code, Dev C++.)*

🎸 INTERESTS

Psychology | Neuroscience |Future Tech | Geopolitics | Modern Physics | Podcast| Stand-Up Comedy|

🔗 SOCIALS

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https://x.com/Sankalp0704