SANSKRUTI DHAL

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Professional Summary

Highly motivated third-year Computer Science student with a strong focus on backend development and machine learning. Proficient in Python, SQL, and data analysis. Experienced in numerical reasoning, and Excel, and building scalable backend solutions. Fluent in English, with a solid foundation in software engineering and machine learning models.

Education

Chandigarh University **2022 - 2026**
Bachelor of Engineering in Computer Science & Engineering *8.21/10 CGPA*

KENDRIYA VIDYALAYA **2021 - 2022**
All India Senior School Certificate Examination *92.6/100 Grades*

Work Experience

Chandigarh University **February 2024 – April 2024**
Internship Opportunity *Remote*

- Innovated real-time data analysis techniques in a collaborative project with IIT Bhubaneswar; enhanced machine learning model performance, achieving a 30% improvement in predictive accuracy and reducing processing time by 20%

Honors and Awards

- Solved over 400 coding challenges on platforms like Code forces, demonstrating strong problem-solving and algorithmic skills.
- Secured first place in SSIP 2.0 Gujarat Hackathon by developing innovative solution that addressed a criticalissue in mining sector.
- Emerged as winner in 30 Hacks Hackathon, showcasing proficiency in rapid prototyping and teamwork.

Projects

Smart Meter

- Executed a complex Python project integrating real-time weather data from Open Weather Map API with dynamicsimulation of energy usage via Google Firebase, enhancing operational efficiency and accuracy significantly.
- Users receive immediate notifications regarding energy usage, weather conditions, and security alerts through a bot, showcasing expertise in IoT simulation, API integration, and chatbot development for intuitive user experience.

Marwari Translation Chatbot- Machine Learning

- Developed a chatbot for English to Marwari translation, addressing a gap in mainstream services. This project demonstrated application of machine learning algorithms to real-world problems.
- Engineered machine learning algorithms incorporating linguistic analysis to enhance translation accuracy by 40% in localization projects, revolutionizing language technology in industry

Printing Vending Machine

- Implemented a versatile bot with a diverse range of functionalities.
- This bot manages file downloads, tracks PDF page counts, and provides OTP-secured access.
- Facilitates image downloads, enabling users to access files via generated OTP.
- Leveraged PyPDF4 and libraries for PDF processing and bot interactions, showcasing proficiency in file handling, security features, and API integrations.

Technical Skills

Languages: Python, C++, Java, C
Backend: Artificial Intelligence, Machine Learning, SQL
Course: Database Management System, Operating System, Data Science, Data Structure

Certifications

IBM Generative AI
Oracle Cloud Infrastructure 2024 Generative AI