Vansh Sachdeva

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Education

Jaypee Institute Of Information Technology   **July 2019 - June 2023**

Bachelor of Technology - Computer Science And Engineering   *Noida, India*

GPA: 7.5

Courses: Operating Systems, Data Structures, Algorithms, Artificial Intelligence, Machine Learning, NLP, Big Data
Networking, Databases, Web Technologies, Cyber Security, Cryptography

Center For Development Of Advanced Computing   **August 2024 - Present**

Post Graduate Diploma: Big Data Analytics   *New Delhi, India*

Courses: Linux Programming, Cloud Computing, Advanced Analytics, Data Collection and DBMS, Big Data Technologies, Data Visualization, Machine Learning.

Skills Summary

- **Programming Languages:** Python, C++, JavaScript, SQL, Bash
- **Frameworks and Tools:** ReactJS, MERN, NodeJS, Keras, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jenkins
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud & DevOps:** AWS, Google Cloud, Jenkins, CI/CD
- **Other Skills:** Agile Methodologies, Debugging, Code Review, OOP, Design Patterns, Cross-Functional Collaboration

Professional Experience

Freelance Developer   **June 2023 - August 2024**

Full Stack Developer   *Remote*

- Created backend systems and APIs for delivery services, improving delivery efficiency by 30
- Collaborated with Olimpio Digilabs LLP's team to launch production-ready components, reducing time-to-market by 20
- Utilized Jenkins, ReactJS, NodeJS, SQL, Docker, and Kubernetes for development and deployment, enhancing deployment speed by 25
- Enhanced performance, achieving 25

Birla Institute of Technology and Science, Pilani   **May 2022 - July 2022**

Student Research Intern   *Remote*

- Investigated Privacy-Preserving Federated Learning for UAV-Enabled Networks, focusing on joint scheduling and resource management, leading to a 10
- Worked with a team of 5 to propose new approaches in IoT and Federated Learning, resulting in a published paper.
- Published findings under the supervision of Dr. Vinay Chamola (PhD, NUS), contributing to the academic community.

Projects

- **Healthcare Management System with Machine Learning:** Developed a platform to improve patient care through AI-driven insights. Implemented mental health assessments with real-time analytics, improving diagnostic accuracy by 20
- **Netflix Clone with Admin Dashboard:** Built a full-stack application for streaming, content management, and data-driven decision-making, increasing user engagement by 35
- **Mental Health Prediction System:** Created an AI-driven prediction model for healthcare, reducing disease risks through scalable ML algorithms, achieving a 25
- **Dynamic Web Application Development:** Developed responsive multi-page websites with advanced frontend tools, enhancing UX/UI and reducing bounce rates by 15

Publications

- **Performance Analysis of Machine Learning Algorithms in Credit Card Fraud Detection:** Published at RAMSA Conference 2022. Showcased comparative efficiency of ML techniques, demonstrating a 10

Achievements

- **Winner:** Top 8 Teams - Hack-O-Heist 2022, IEEE CS ADGITM, for developing an innovative solution to a real-world problem.
- **Winner:** HackingHeist 2.0, a 48-hour Hackathon organized by Inaxia and MLH, for creating a high-impact project under tight deadlines.

Certifications and Training

Google Cloud Program   **October 2021 - November 2021**

Completed Data Science & ML Track   *Noida, India*

Wipro-Nasscom Future-skills   **May 2021 - May 2022**

Courses in AI, Cyber Security, UI/UX   *Noida, India*