

Prince Sahgal

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Education

Jaypee Institute of Information Technology

B.Tech in Electronics and Communication Engineering, Noida, 2021–2025

Dav Public School

Senior Secondary Percentage: 90.2%, Ghaziabad, 2019–2020

Work Experience

CODTECH IT SOLUTION

Remote

Machine Learning Intern

June 2023–July 2023

- Gained proficiency in key Python libraries such as NumPy, Pandas, Scikit-learn, and Matplotlib, utilizing them to build and evaluate machine learning models.
- Developed and submitted multiple machine learning projects, showcasing the ability to apply theoretical knowledge to practical problems and deliver results efficiently.

ALSTOM Rail Transportation India Pvt. Ltd

Hybrid

Onboard Intern

June 2024–July 2024

- Research Focus: Conducted in-depth research on the efficiency mode of ATS software to optimize system performance.
- Analysis: Evaluated the effectiveness of automation and integration in real-world rail operations which help in improving safety.

Projects

○ Design and Simulation SIW on HFSS

- Designed and simulated an SIW structure using HFSS, optimizing its performance for high-frequency applications.
- Analyzed key parameters like insertion loss and bandwidth for microwave components.

○ Smart Shoes for the Visually Impaired

- Engineered smart shoes using Arduino Nano, integrating a gyroscope (GY-521), ultrasonic sensor (HCSR04), and IR sensors for precise obstacle detection up to 150 cm.
- Incorporated a 433 MHz RF transmitter for real-time alerts and seamless communication, enhancing safety and user experience.

○ AgroTech

- Engineered a web-based model using HTML, CSS and Python and machine learning to analyze over 3000 agricultural data entries.
- Enabled data analysis, model training, and visualization to improve agricultural decision-making and enhance operational efficiency.

Technical Skills

○ **Languages:** C++, Python, SQL

○ **Core competencies:** EMFT, Machine-learning, Database management-system(MySQL), Operating System

○ **Tools:** HFSS, Comsol-Multiphysics and Jupyter-Notebook

Certifications and Achievements

- Resolved 250+ intricate algorithmic problems on competitive coding platforms, significantly enhancing problem-solving skills and technical expertise in various algorithms, leading to improved coding efficiency and speed.
- Member of Thespian Circle - Participated in street plays organized by the college society, contributing to creative scripts and performances.
- Member of Jaypee Youth Club - Organized large events with over 500 attendees, enhancing guest satisfaction and managing hospitality for all artists.
- **Certifications:** Basics of C++ by Coding Ninjas
- Appreciation letter by IIIT - Exemplary performance in the course "EMFT."