

# Pushpanjali Sahu

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## CAREER OBJECTIVE

Aspiring Machine Learning and Deep Learning Engineer passionate about applying AI techniques to solve real-world problems. Seeking internship opportunities to enhance technical, analytical, and research skills while contributing to innovative projects.

## EDUCATION

<b>Bachelor of Technology (B.Tech) in Computer Science and Engineering</b> University Teaching Department, CSVTU Bhilai, Chhattisgarh	CGPA: <b>9.00</b> (till 3 <sup>rd</sup> semester) <b>2023-2027</b>
<b>Higher Secondary (Class XII)</b> Mayaram Surjan govt. Girls School, Raipur	Percentage : <b>83.8%</b> <b>2021-2022</b>
<b>Senior Secondary (Class X)</b> Govt. RMSA Higher secondary School Kalartarai, Dhamtari	Percentage : <b>92.6%</b> <b>2019-2020</b>

## WORK EXPERIENCE

- Research Intern: National Institute of Technology (NIT) Raipur, Chhattisgarh** May 2025 - July 2025
  - Conducted research on **Epileptic Seizure Classification using Deep Learning** under the guidance of *Dr. Rekh Ram Janghel*.
  - Implemented a **CNN model** with **Discrete Wavelet Transform (DWT)** for feature extraction.
  - Applied **SMOTE** for data balancing and improved classification accuracy on EEG datasets.
- Machine Learning Intern - 1Stop.ai** May 2025 - June 2025
  - Worked on the **Human Action Detection** project using multiple machine learning algorithms.
  - Built a **Bike Sharing Prediction Model** using Linear Regression for predictive analysis.
  - Utilized ML algorithms like **KNN, Naïve Bayes, Decision Tree**, and **Random Forest** for model training and evaluation.

## PROJECTS

- Hospital Management System** Sep 2024 - Dec 2024
  - Developed a full backend system in **Python** using **MySQL** and **MySQL Connector**.
  - Implemented **CRUD operations** for real-time data handling and user interaction.
  - Strengthened skills in **database integration, data management**, and **backend logic**.
- Diabetic Prediction Model** May 2025
  - Designed and trained multiple ML models (**Linear Regression, SVM, KNN, Decision Tree, Random Forest, XGBoost**) for diabetes classification.
  - Evaluated model performance using **Accuracy, Precision, Recall**, and **F1-Score** metrics.
  - Improved prediction performance through proper data preprocessing and feature selection.

## SKILLS

- Programming:-** Python, C, C++, R
- ML/DL:-** TensorFlow, NumPy, Pandas, Matplotlib, Scikit-learn
- Web Development :-** HTML, CSS, JavaScript
- CS Fundamentals:** OOPS, OS, DBMS, Computer network, COA
- Databases :-** MySQL, **Tools:** Jupyter Notebook, VS Code, Git

## CERTIFICATIONS

- Research Internship in Machine Learning and Deep Learning - NIT Raipur (Jul 2025)
- Machine Learning Internship and Projects - 1Stop.ai (Jun 2025)
- Python for Data Science and AI - IBM (Mar 2025)
- Machine Learning Projects Participation - IIT Guwahati
- Nestlé E-Training Completion Certificate

## ACHIEVEMENTS

- Member of **Programmers Paradise Community**, CSVTU Bhilai.
- Earned **IBM Badge** for "Python for Data Science and AI".
- Participated in **inter-college hackathons and ML project exhibitions**.

## INTERESTS

- Machine Learning • Deep Learning • Data Science • Biomedical Signal Processing • AI Research