






# Raj Sahu

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## EDUCATION

<b>Indian Institute Of Technology (ISM) Dhanbad</b>	2021 - 2026
<i>Integrated Master of Technology in Applied Geophysics</i>	<i>Current GPA: 8.68/10</i>
<b>Stepping Stones Sr. Sec. School, Chandigarh</b>	2019 - 2021
	95.6 %

## EXPERIENCE

<b>GeoVision.ai - IIT Bombay</b>   <i>Research Intern</i>	May 2023 - July 2023
<b>Topic:</b> Near Surface Wave Modelling	
<b>Description:</b>	
<ul style="list-style-type: none"><li>Utilized Fdelmodc, Disba and swprocess for surface wave inversion, focusing on generating high-precision subsurface Earth models.</li><li>Collaborated with a team of researchers to collect and analyze seismic data, enhancing the depth for better results.</li><li>Developed Python programs for automation of data generation.</li></ul>	
<b>Skillathon 2.0</b>   <i>Mentor</i>	May 2022 - August 2022
Taught school students computer skills like programming and Web Development.	

## SKILLS

**Languages:** C++, Python  
**Web Technologies:** JavaScript, HTML, CSS, NodeJS, Flask, SQL  
**Tools:** Git/GitHub, Unix Shell, VS Code, Colab  
**Libraries:** Tensorflow/Keras, PyTorch, OpenCV, Scikit-Learn, Numpy, Matplotlib, Pandas

## COURSES AND CERTIFICATES

- Machine learning Specialization by DeepLearning.AI
- Deep Learning Specialization by DeepLearning.AI
- Data Science Fundamentals with python and SQL by IBM
- Stanford's Course CS231n

## PROJECTS

<b>PredictStock</b>   <i>Python, Pandas, NumPy, Plotly, Keras, Streamlit, Git</i>	September 2023
<ul style="list-style-type: none"><li>Developed a comprehensive stock price prediction and visualization web application</li><li>Implemented data analysis, candlestick charting, and moving averages for technical analysis</li><li>Utilized LSTM (Long Short-Term Memory) for stock price prediction</li><li>Provided a user-friendly interface with Streamlit and achieved an average accuracy above 90%</li></ul>	
<b>Fashion Item Classifier</b>   <i>Python, Keras, Streamlit</i>	August 2023
<ul style="list-style-type: none"><li>Developed a Streamlit web application for classifying clothing items into various categories using three distinct models.</li><li>Implemented three different convolutional neural network models for clothing classification, each achieving an impressive accuracy above 90%.</li><li>Designed a user-friendly interface that allows users to easily upload images of clothing items and receive accurate predictions.</li><li>Deployed the application online, enabling users to access it at <a href="https://fashionclassifier.streamlit.app">https://fashionclassifier.streamlit.app</a>.</li><li>Utilized [Fashion MNIST] for model training and testing, providing a robust foundation for accurate predictions.</li></ul>	

## ACHIEVEMENTS

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- Winner of Tech Savvy during Concetto '22
- Geo-Akarshan 3.0: 2nd runner up in Geo-Trivia

## POSITION OF RESPONSIBILITY

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<b>Vice President</b> : SEG IIT ISM Student Chapter It is the official student chapter of SEG in IIT ISM Dhanbad	December 2023 - Present
<b>Technical Secretery</b> : Aquamarine Hostel It is the largest hostel of our college havinf 2000 inmates	August 2023 - Present
<b>Organizer</b> : CGA 2023 A three days National Conference on "Geophysical Advances - Natural Resource Exploration, Energy Security and Geohazards.	March 2023
<b>Office Bearer</b> : Geophysical Society It is the official geophysical society of IIT(ISM) Dhanbad.	August 2022 - Present
<b>Volunteer</b> : RSP Learning Foundation It is an NGO for the underprivileged people for Learning, Skill Development, and such other avenues. Active member of Badminton team of IIT (ISM) Dhanbad.	2021 - 2022