

# Soumyajit Saha

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Home: West Bengal (India)

## EDUCATION AND TRAINING

**Bachelor of Technology in Computer Science**  
*Vellore Institute of Technology Bhopal* [June 2021 – Current]  
City: Bhopal | Country: India | Field(s) of study: Computer Science | Final grade: 8.56

## WORK EXPERIENCE

**Python and Machine Learning intern**  
*Nation Environment Engineering Research Institute [NEERI], Nagpur* [September 2023 – April 2024]

- Increased matching accuracy by 40% by designing and implementing a robust data storage platform for Dr.Ashish's team, integrating machine learning and NLP to enhance candidate recommendations.
- Boosted project success and usability by utilizing advanced ML and NLP techniques, leading to significant improvements in performance.

**Machine Learning intern**  
*RadicalX* [October 2023 – December 2023]

- Improved community engagement by 25% by introducing new features to enhance collaboration for students and AI enthusiasts at RadicalX.
- Enhanced project efficiency by 30% by spearheading key subprojects and utilizing Python skills to develop and streamline community projects.

## PROJECTS

**Olympic Analysis (2009-2019)**

- Optimized data processing efficiency by 20% through in-depth analysis of Olympic data (2009-2019) using Python and libraries, generating over 50 visualizations.
- Elevated user engagement by 30% by creating and deploying an interactive Streamlit application.
- Clarified comprehension of Olympic trends among peers and faculty by effectively conveying complex insights.

**Credit card fraud detection**

- Architected a robust system with hybrid machine learning in Python, achieving precise fraud detection and increasing detection accuracy by 20%.
- Amplified model effectiveness by 20% through optimizing data handling and refining algorithms.
- Utilized advanced data science and machine learning concepts, elevating predictive analytics capabilities.

**You Write We Tell You**

- Created a deep learning model to predict personality traits from handwriting images, collaborating with a four-member team, achieving a high accuracy rate of 85%.
- Advanced technical expertise in image analysis and deep learning, enhancing the educational value and enjoyment of the project.

## PUBLICATIONS

Credit Card Fraud Detection Using a Hybrid Machine Learning Algorithm

## DIGITAL SKILLS

Languages: Python, SQL.  
Frameworks: NumPy, Pandas, Streamlit, Flask, Keras, PyTorch, Scikit Learn, Seaborn.  
Domain: Machine-learning, Deep-Learning, Data Manipulation, Data Visualization, Web Scrapping, APIs.

## CERTIFICATIONS

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- Google generative AI certificate
- Machine learning certificate from Stanford University and
- DeepLearning.ai.AI Engineering Professional Certificate from IBM
- Cisco: Introduction to Data Science and Data Analytics

## NETWORKS AND MEMBERSHIPS

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- Student Member of the Internet Society - Member ID: 2278159
- Student Member of Institute of Electrical and Electronic Engineers (IEEE).