

SOUBHAGYA DAS

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PROFILE SUMMARY

I am dedicated and enthusiastic, passionate about machine learning, data analysis, computer networking, and cyber security. My journey is fueled by curiosity in data patterns and securing robust network infrastructures. I aim to contribute to innovative solutions, ensuring network systems security and efficiency.

EDUCATION

Institute of Technical Education and Research • Bhubaneswar <i>Computer Science and Engineering</i> • CGPA: 9.15	2021 - 2025
Mothers Public School • Bhubaneswar <i>AISSCE, New Delhi, General Science</i> • Aggregate - 81%	2018 - 2020
D.A.V Public School • Puri <i>AISSCE, New Delhi</i> • Aggregate - 89.6%	2006 - 2018

INTERNSHIPS

Data Science intern - AICTE OIB-SIP <i>Python, scikit-learn, Jupyter Notebook, Git, Pandas, NumPy, Matplotlib, Seaborn</i> <ul style="list-style-type: none">Iris Flower Classification : Developed a machine learning model using Python and Scikit-learn to classify Iris flowers into three speciesUnemployment Analysis : Analyzed unemployment rates during Covid-19 using data science techniques to understand the impact on the labor force.Car Price Prediction : Researched car price prediction using machine learning, examining attributes including Car Name, Year, Selling Price, Present Price, Driven KMs, Fuel Type, Selling Type, Transmission, and Owner to uncover influential pricing determinants.Email Spam Detection : Built a Python-based email spam detector using machine learning to classify emails into spam and non-spam categories.Sales Prediction : Initiated sales prediction using machine learning in Python to forecast product demand based on advertising expenditures, target demographics, and marketing platforms.	March 2024 - April 2024
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PERSONAL PROJECTS

Human Activity Recognition using Smartphone Data <i>Python, scikit-learn, Jupyter Notebook, Git, Pandas, NumPy, Matplotlib, Seaborn</i> <ul style="list-style-type: none">Collected and preprocessed smartphone sensor data (accelerometer, gyroscope) to prepare it for machine learning model training.Conducted exploratory data analysis (EDA) to gain insights into the characteristics of the sensor data.Evaluated the performance of the models using metrics such as accuracy, precision, recall, and F1-score.Utilized data visualization techniques with Matplotlib and Seaborn to present the results and model performance metrics.	January 2024 - Present
Packet Sniffing for Security and Monitoring <i>Python, Scapy, Pcap, Socket Library, Pandas, NumPy, Matplotlib, Seaborn</i> <ul style="list-style-type: none">Thoroughly formatted MAC addresses for precise network packet analysis.Precisely unpacked IP packet headers for meticulous data extraction.Methodically analyzed ICMP and TCP data within captured packets.	June 2024 - Present

TECHNICAL SKILLS

- Programming Languages:** Java, Python
- Computer Science Fundamentals:** Data Structures and Algorithms, Object-Oriented Programming, Operating Systems Basics, Computer Networking, Cryptography and Network Security
- Machine Learning:** scikit-learn
- Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn
- Front-end Basics:** HTML, CSS, Bootstrap, jQuery
- Tools:** Jupyter Notebook, Eclipse IDE

LEADERSHIP / EXTRA-CURRICULAR ACTIVITIES

Olympiad Achievements <ul style="list-style-type: none">Won medals in Mathematics, Science, and English Olympiad exams, reflecting dedication to academic excellence and a commitment to mastering diverse subjects.
State Level Cricket Championship <ul style="list-style-type: none">Demonstrated exceptional leadership, strategic thinking, and teamwork skills as captain of the district cricket team.