

SOUBHAGYA DAS

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PROFILE SUMMARY

I am a dedicated and enthusiastic individual with a strong passion for machine learning and data analysis. My journey in this field has been driven by a deep curiosity and a desire to understand complex patterns in data. With a solid foundation in the principles of machine learning, I continuously seek to expand my knowledge through hands-on projects and self-study. My goal is to leverage my skills and passion to contribute meaningfully to the field of data science.

EDUCATION

Institute of Technical Education and Research • Bhubaneswar <i>Computer Science and Engineering • CGPA: 9.18</i>	2021 - 2025
Mothers Public School • Bhubaneswar <i>AISSCE, New Delhi, General Science • Aggregate - 81%</i>	2018 - 2020
D.A.V Public School • Puri <i>AISSCE, New Delhi • Aggregate - 89.6%</i>	2006 - 2018

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.Utilized feature engineering techniques to extract relevant features from the sensor data, enhancing the performance of the machine learning models.Implemented machine learning models to classify human activities (e.g., walking, running, sitting) based on 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.Explored various machine learning algorithms and hyperparameter tuning strategies to improve classification accuracy.	January 2024 - Present
DNA Classification for Finding E. coli <i>Python, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn</i> <ul style="list-style-type: none">Obtained and preprocessed a dataset of DNA sequences, including E. coli.Utilized machine learning for classification.Analyzed and deployed the model for identifying E. coli.Explored advanced techniques for feature engineering and model enhancement.Documented the entire process, including data collection	February 2024 - Present

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C
- **Computer Science Fundamentals:** Data Structures and Algorithms, Object-Oriented Programming, Operating Systems Basics, Computer Architecture and Organization
- **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

State Level Cricket Championship

- Demonstrated exceptional leadership, strategic thinking, and teamwork skills as captain of the district cricket team.

Olympiad Achievements

- Won medals in Mathematics, Science, and English Olympiad exams, reflecting dedication to academic excellence and a commitment to mastering diverse subjects.

Inter-school Dance Championship

- Led a group dance performance to secure first place in the inter-school dance championship, showcasing leadership, coordination, and teamwork skills.