

Statement of Purpose

I am Sweta Dutta, a third-year B.Tech student in Electrical Engineering at the Odisha University of Technology and Research, Bhubaneswar, holding a CGPA of 8.45. My deep passion for Artificial Intelligence, Machine Learning and Deep Learning drives me to explore their applications in Signal Processing and Computer Vision. Being from a tier 2 College with minimum opportunity, the Summer Research Internship 2025 at IIT Kharagpur under Prof.

Aurobinda Routray provides an exceptional platform to broaden my expertise and contribute to impactful research in these fields.

Throughout my academic journey, I have undertaken several notable projects that demonstrate my enthusiasm for AI and technology integration. Key highlights include:

1. House Price Prediction

Techniques Used: Linear Regression

Frameworks/Libraries: Python, NumPy, Pandas, Scikit-learn, Matplotlib

2. Iris Flower Classification

Techniques Used: Decision Tree Classification

Frameworks/Libraries: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

This internship presents an incredible opportunity to gain exposure to cutting-edge research and product development at IIT Kharagpur. I am eager to contribute to ongoing projects, enhance my technical expertise in machine learning and natural language processing, and learn under the guidance of accomplished researchers like Prof. Routray. This experience will play a pivotal role in shaping my future endeavours and advancing my aspiration to make impactful contributions to AI and its applications.

Thankyou for considering my application.

Sincerely,

Sweta Dutta

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