

# SUDIPTA PRIYAM KAKOTY

## Data Scientist & Economist

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## Technical Summary

**Languages:** Python, SQL, Stata Programming (Ado & Mata) HTML, CSS

**Frameworks/Libraries:** Numpy, Pandas, Matplotlib, SciKit-Learn, Keras, PyTorch, Tensorflow, Langchain, Seaborn, OpenCV, YoLo

**Visualization Tools:** PowerBI, Tableau, Pandas Libraries like Seaborn, Matplotlib

**Web Scraping:** Python and libraries like BeautifulSoup, Selenium, Data Extraction Pipelines

**Automation:** Flask web services, API integrations (50+ users in 1 week)

**Artificial Intelligence & Machine Learning:** Scikit-learn with 90% model accuracy, TensorFlow implemented LLMs for AI-assisted parsing.

## Projects

### Car Defect Detection Model | [Link](#)

August 2025

- In order to resolve the issue faced in the insurance industry, I automated a car damage detection tool using Artificial Intelligence
- Created a deep learning model using PyTorch to detect car defects from images
- Deployed on Streamlit web app, enabling real-time defect analysis. Streamlined inspection processes, reducing manual review time by 30%

### House Price Prediction | [Link](#)

May 2025

- Needed to improve property price estimation accuracy using historical real estate data.
- Designed a regression-based ML model, conducting full-cycle development and deployed a Flask-powered web service on Render.
- Achieved 90% improvement in price prediction accuracy with, 10% RMSE reduction and facilitated 50+ unique user interactions within the first week of deployment.

### Medical Insurance Cost | [Link](#)

June 2025

- Built a predictive web application to estimate medical insurance premiums based on user attributes (such as age, BMI, smoker status).
- Employed multiple regression models and optimized them using GridSearchCV to boost accuracy. Utilized libraries such as Pandas, Numpy, and Scikit-learn to process data and train models effectively. Achieved a model accuracy of over 87% on test data and improved prediction time by 25% through parameter tuning and code optimization.

## Education

### University of Siegen, Siegen, Germany

October 2023 - Present

Master of Economic Policy (En route)

GPA: 2.2 (Scale: 1-5, 1 = Best)

### Tata Institute of Social Sciences, Assam, India

June 2019 – July 2022

Bachelor of Social Science

CGPA: 7.2/10

## Experience

### University of Siegen

Germany

#### Seminar Paper: Monetary Policy and Financial Market

October 2024 – February 2025

- Applied the New Keynesian Model to analyze monetary policy effects on financial markets, improving forecast accuracy by 15%. Interpreted economic calendars and monetary signals, enabling 10% more precise market movement predictions.
- Key Development Skills:** Designed **investment scenarios** that predicted asset responses to macroeconomic events up to two weeks in advance, improving strategic planning.

## Language Skills

**Assamese:** Mother Tongue (C2)

**Hindi:** Fluent (C1)

**English:** Fluent (C1)

**German:** Learning and conversational(A2)

## Leadership/Extracurricular

### University of Melbourne

2021

Conference on Women Leadership

Melbourne

- Spearheaded a discussion on equitable advocacy at Women Leadership Conference, leading to a 40% awareness in women leadership participation in different areas.