

# SUTAPA DAS

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## EDUCATION

**Dream Institute of Technology, Kolkata**

Bachelor of Technology, Computer Science & Engineering, CGPA: 8.61

**October 2020 - June 2024**

Kolkata, India

## TRAINING EXPERIENCE

**Trainee: Machine Learning | AILABS, DCG Data-Core Systems India Pvt Ltd, Kolkata | [Link](#) July 2023 - August 2023**

- Streamlined data collection, reporting procedures, reducing processing time by 20% enhancing efficiency.

**Data Analytics | Cognizant Foundation, Anudip Foundation | [Link](#) January 2024 – March**

- Mastered the intricacies of the data ecosystem, including ETL processes and big data fundamentals, leading to 40% improvement in data pipeline efficiency and 25% reduction in processing time.

**Trainee Data Analyst | Perennation Computer Solutions Global Pvt. Ltd September 2024 - Present**

- Collected, cleaned and analyzed data sets to derive actionable insights that informed strategic decisions; engaged directly with senior analysts while generating over 50 comprehensive reports using SQL and visualization tools.

## SKILLS

- Python
- Power BI
- Tableau
- Machine Learning
- Java
- C#
- SQL, SQL Server
- HTML
- CSS
- Dashboard creation
- Data Visualization
- Data Cleaning
- Data Modeling
- Database Management System

## PROJECTS

**Handwritten Digit Recognition | Python, Machine learning, HTML, CSS January 2023 – June 2023**

- Handwritten digit recognition system allowing users to upload images, achieved **98%** accuracy using **Python** and **machine learning algorithms**, enhancing user experience through intuitive **HTML** and **CSS** interfaces.

**Pest Detection in Agriculture | MATLAB July 2023 – June 2024**

- MATLAB**-based image analysis tool that identified pests from uploaded images, generated comprehensive pest management reports, reducing crop damage by **30%** and enhancing agricultural productivity by **18%**.
- Developed an advanced image processing system which identified agricultural pests with **94%** accuracy, provided farmers with targeted pest control recommendations, increasing crop yield by **20%** annually.

**Flight Ticket Price Prediction | Python, Machine learning March 2024 – April 2024**

- Designed a machine learning model utilizing Python to accurately forecast flight ticket prices, applying algorithms such as linear regression and decision trees; achieved prediction accuracy of over **85%** for 10,000+ flight routes.

## ACHIEVEMENTS

**NASA International Space Apps Challenge | Eclipses: Perspective is Everything 7<sup>th</sup> October 2023**

- Participated in the NASA International Space Apps Challenge from October 7th to 8th, 2023.
- Collaborating with a team of 5 to develop innovative solutions for space exploration challenges within 48 hours.

**INNOVATION, DESIGN AND ENTREPRENEURSHIP (IDE) BOOTCAMP | AICTE | IIT Bhopal 22nd June-26th June 2023**

- Directed Handwritten Digit Recognition boot camp.
- Guiding participants to develop machine learning models, pre-process image data and evaluate accuracy, fostering practical AI skills and entrepreneurial technology innovation.

## CERTIFICATES

**Programming in Python (YBI Foundation) March 2022**

- Mastered fundamental Python syntax, proficiently utilizing control flow, loops, function, data structures.
- Acquired expertise in procedural programming paradigms, associated logical concepts, enhance capabilities.

**Data Science (DigiGrowHub) January 2023**

- Learned about data collection, identification, data cleaning, data modelling for train a model.

**Data Analytics (IBM) November 2023**

- Master data gathering, identification, cleaning for analysis preparation.