

# AVIJIT BISWAS

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## SUMMARY:

Dedicated and results-driven Data Scientist with 3+ years of experience in leveraging data science and machine learning models to drive organizational objectives. Proficient in Python programming, machine learning algorithms, AWS, NLP, SQL.

## EDUCATION:

### Master (MS):

2023-2025

Master of Science in **Data Science and Management** from Indian Institutes of Technology Ropar( **IIT- Ropar** ) and Indian Institutes of Management Amritsar ( **IIM- Amritsar** ).

### BACHELOR OF TECHNOLOGY ( BTech ):

2012-2016

In Mechanical Engineering from Maulana Abul Kalam Azad University of Technology (WBUT)

## EXPERIENCE:

### iHub-AWaDH @ IIT ROPAR: 09/2023-Present- Punjab, India

Working with Develop and deploy machine learning models for personalized product. Analyse predictive modelling, fine-tuning using test results, Hedge funds, optimization, time series data.

**Using:** Python, Statistic, Decision tree learning, Artificial neural networks, Deep Learning, TensorFlow, Keras, PyTorch.

### Autoliv ( CadMaxx ) : Engineer : 03/2023- 08/2023- Bangalore, India

Conduct A/B and multivariate tests, analysing NLP model performance. Data Exploration, Visualization, Model Development, automation, data mining, Optimization, Web Scraping and deploy models to decision making for operational, Real assets, Collaborate with cross-functional teams to optimize customer journeys.

**Using:** Predictive models, text mining, Regression, html, CSS, JavaScript, classification, Tableau, Hyper parameters, MLOps, Statistical Analysis, AlexNet, LSTM, Conformers, BERT.

### L&T Technology Services ( SCANIA ): Consultant : 01/2022- 03/2023 - Bangalore, India

Worked for SCANIA, design on building AI model on location-based analysis. This involved scraping all the data from various data sources and pipelines and writing a Machine Learning model to do a time series analysis predict future failure on Direct investments, recommend system, hypothesis tests to evaluate model performance, public markets, including equities, swaps, options, forwards.

**Using:** Language processing, business decisions, Data Mining, Hypothetical testing, NumPy, SciPy, Scikit-Learn, Power Bi, Deep Learning Models, Generative AI, ML frameworks.

### ISRO Telemetry Tracking and Command Network (ISTRAC): 01/2017-01/2018.

Validate and evaluate algorithms, space data, satellite images data, resulting in improved data quality and more accurate modelling, analysis using python, data exploration and visualization.

**Using:** Python programming, Databricks, Python libraries, NoSQL, GitHub, JSON.

### Bharat Electronics Ltd: at Navel System II: Trainee. 07/2015-08/2015. – Bangalore, India

**Project Name:** Antenna drive control system.

## TECHNICAL SKILLS:

**Data analysis / Artificial Intelligence:** CNNs, GANs, Data Cleansing, ML/DL framework, **Data Visualisation**, EDA, data modelling, **Mathematics**, **Quantitative Statistics**, APIs, Probability, Matrix, SVM, R (Programming Language), Object-Oriented Programming, MLFlow, Hadoop, Spark, DevOps.

**Software & Database:** Git, Tableau, GCP, GitHub, ETL.

## PROJECTS: (Available in GITHUB: [avijit4000](https://github.com/avijit4000))

- **Finance Portfolio Optimization:** The project will leverage historical financial data to estimate expected returns, standard deviations, and correlation coefficients for each asset in the portfolio, forming the basis for the optimization process. [Click hear.](#)
- **Diamond price prediction: (Regression Analysis):** Aims to develop a predictive model to estimate the market value of diamonds based on various intrinsic characteristics. [Click hear.](#)  
**Using:** Object-oriented programming, Python, SQL, Modular coding, CI/CD, AWS, AZURE, Docker, html, CSS.
- **Marketing Project for Launching New Products:** Snackable for Yoga and Gym, a health-conscious snack brand, is embarking on a marketing project to launch two new products: Protein Bars and Aloe Vera Juice. [Click hear.](#)

**Using:** Current Market Situation Analysis, Swot Analysis, Ansoff matrix, Budget Analysis.

- **LARGE LANGUAGE MODEL ( LLM ) Project:** A Comprehensive Analysis of the Read Book and Answer System in LLM Studies. [Click hear.](#)

**Using:** Lang chain, python-box, streamlet, sentence-transformers, unicorn, Kubernetes.

- **Income Prediction: (Classification Analysis):** Prediction task is to Leveraging machine learning algorithms determine whether a person makes over 50K a year. [Click hear.](#)

**Using:** OOPs, Modular coding, CI/CD, AWS, AZURE, Docker, html.

**Using:** Markowitz Portfolio Optimization Model, Pandas , NumPy, yahoo finance, python library.

- **Food Time Delivery Prediction:** The Food Time Delivery Prediction data science project aims to optimize the delivery process for a food delivery service by predicting accurate delivery times. [Click hear.](#)

**Using:** HTML, CSS, python, flask, Machine Learning.

- **Helmet Detection: (Computer Vision):** Helmet detection in computer vision refers to the process of identifying and recognizing whether individuals in images frames are wearing helmets. [Click hear.](#)

**Using:** TensorFlow, Keras, Pillow, OpenCV, REST API, Flask.

- **Machine Failure Prediction:** NLP-based customer sentiment analysis tool for Machine Maintenance predictive Classification manipulating, transforming data, model selection, cross-validation, and deployment at scale using Python.

## **CERTIFICATION:**

**Business Analytics and Operation Research-2022** from the Indian Institute of Management Mumbai (NITIE-Mumbai)

## **LANGUAGE KNOWN:**

English, Hindi, Bengali, mandarin Chinese.

## **SOFT SKILL:**

Strong problem-solving, task orientated mindset.

## **STRENGTHS:**

Leadership, Hard Working, Optimistic, and Ability to adjust to any environment.

## **PERSONAL INFORMATION:**

**Passport No:** M9398483

**Gender:** Male

**Date of Birth:** 19-04-1993

**Category:** General