



Abhradeep Chandra Paul

Data Scientist | Machine Learning Engineer | AI Enthusiast

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Abhra-deep

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Portfolio

SUMMARY

Passionate **Data Scientist** with expertise in **Machine Learning, Deep Learning, and AI**. Skilled in **predictive modeling, data analysis, and natural language processing (NLP)**. Experienced in developing **end-to-end AI-driven applications**, building **custom chatbots**, and analyzing real-world datasets to derive actionable insights.

KEY SKILLS

Machine Learning • Deep Learning • NLP (Text Preprocessing, Language Modeling, Summarization) • Data Analysis (EDA, SQL, Visualization)

TECHNICAL SKILLS

- **Programming & Tools:** Python, SQL, Flask, OpenAI API, Pandas, NumPy, Keras, TensorFlow, PyTorch, Scikit-learn, Hugging Face
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, NLP, Computer Vision, Feature Engineering
- **Cloud & Databases:** AWS, GCP, MongoDB, MySQL, PostgreSQL, SQLite
- **Big Data & Analytics:** Apache Spark, PySpark, Tableau, Power BI
- **Version Control & Deployment:** GitHub, Docker, FastAP

EDUCATION

Post Graduate Diploma in Data Science

IIIT Bangalore & upGrad [Feb '24 - Apr '25]

- Data Analysis using SQL
- Introduction to Machine Learning
- Time Series Analysis & Forecasting
- NLP & Text Processing
- Cloud & Big Data Analytics (PySpark)
- Business Problem Assignments

Bachelors in Electronics & Communication Engineering (8.79)

Calcutta Institute of Technology [Aug '20 - Jul '23]

Diploma in Electronics & Telecommunication Engineering (7.2)

Bishnupur Public Institute of Engineering [Aug '16 - Jul '16]

PROJECTS

Loan Default Risk Analysis and Prediction | upGrad | Jun'24

- **Description:** Built a predictive model to analyze loan applications and identify risk factors leading to defaults.
- **Key Insights:** Identified **income stability, education, and employment history** as major risk factors.
- **Technologies:** Python, Pandas, Scikit-learn, Random Forest, Logistic Regression

Global Movie Audience Analysis for RSVP Movies | upGrad | Jul'24

- **Description:** Conducted an **SQL-based exploratory data analysis** for RSVP Movies to optimize business strategies.
- **Key Insights:** Identified **top-performing genres, audience preferences, and revenue drivers**.
- **Technologies:** SQL, MySQL, Data Visualization

Developing a multiple linear regression model to predict demand for shared bikes | upGrad | Aug'24

- **Description:** Developed a **multiple linear regression model** to predict demand for shared bikes in different conditions.
- **Key Insights:** Demand is influenced by **temperature, seasonality, and time of day**.
- **Technologies:** Python, Statsmodels, Regression Analysis

Telecom Churn Case Study | upGrad | Oct'24

- **Description:** Developed a **churn prediction model** for the telecom industry to identify customer retention strategies.
- **Key Insights:** Factors like **network quality, pricing, and engagement levels** were identified as churn predictors.
- **Technologies:** Python, Scikit-learn, XGBoost, Feature Engineering

Lead Scoring Case Study | upGrad | Dec'24

- **Description:** Built a scoring model for **X Education** to predict high-converting leads and improve conversion rates.
- **Key Insights:** Behavioral factors like **website engagement, course preferences, and marketing channels** impact conversion.
- **Technologies:** Python, Logistic Regression, Feature Engineering

Langchain Chatbot | Jan'25

- **Description:** Developed a **custom AI-powered chatbot** using **Langchain** and **OpenAI API** to provide conversational assistance.
- **Technologies:** Python, Langchain, OpenAI API, Flask, Hugging Face

CERTIFICATIONS

- **Python for Data Science** – Udemy
- **Machine Learning Specialization** – Coursera (Andrew Ng)
- **Deep Learning with TensorFlow & Keras** – Udacity

ADDITIONAL INFORMATION

- **Portfolio:** abhra-deep.github.io/Portfolio
- **GitHub:** github.com/Abhra-deep
- **LinkedIn:** linkedin.com/in/abhra-deepchandrapaul