

Subrat Mishra

Data Scientist

Passionate Data Scientist with expertise in Machine Learning (ML), Natural Language Processing (NLP), Deep Learning (DL), and Data Analytics. Skilled in developing and deploying AI solutions, optimizing models, and automating data pipelines.



✉ 3subratmishra1sep@gmail.com

📍 Bhawanipatna, India

🌐 linkedin.com/in/subrat-mishra-579a41240

📞 7683956232

📅 01 September, 2000

🐙 github.com/Subrat1920

EDUCATION

MCA (Master of Computer Application)

Gandhi Institute of Engineering and Technology, Gunupur

09/2022 - 05/2024

CGPA: 8.56

Bachelor of Science (B.Sc.)

ISBM University, Raipur

08/2018 - 06/2021

CGPA: 6.45

PERSONAL PROJECTS

Bankruptcy Prevention

- Created a **machine learning model** to predict financial distress and help businesses avoid bankruptcy with **98% accuracy**.
- Analyzed **financial statements, operational metrics, and economic indicators** for accurate forecasting.
- Used **MLflow** to track model performance across multiple algorithms.

NASA Near-Earth Object Hazard Classification

- Developed a **machine learning pipeline** to identify hazardous asteroids using data from the **NASA Near Earth Object API (NEO)** with **96% accuracy**.
- Applied **Apache Airflow with Astronomer DAGs** for automated data ingestion and preprocessing, storing data in **PostgreSQL** database.
- Tracked ML experiments with **MLflow** and versioned datasets/models using **DAGsHub**.

IMDB Sentiment Analysis

- Built a **deep learning model** to classify movie reviews using the **IMDB Reviews Dataset**.
- Preprocessed text data with **embedding layers** and utilized **Bidirectional RNN and GRU** for sequence modeling.

Book Recommendation System

- Developed a **personalized book recommendation system** using Python, leveraging collaborative filtering techniques to suggest books based on user preferences.
- Utilized **cosine similarity** to measure the similarity between books, enhancing the accuracy of recommendations.
- Created an **interactive user interface** with Streamlit, allowing users to input their preferences and receive real-time book suggestions.

WORK EXPERIENCE

Data Science Intern

AI Variant

10/2024 - Present

Bangalore

Specializes in AI, machine learning, and automation, providing innovative solutions to enhance efficiency across industries.

Achievements/Tasks

- Conducted **EDA** to identify trends, missing values/outliers, analyze feature relationships, and visualize data for insight analysis.
- Conducted **hyperparameter tuning**, leading to a **10% improvement** in model performance across classification and regression tasks.
- Implemented **MLFlow** for experiment tracking, improving model reproducibility and reducing debugging time.
- Implemented a reusable **ML Pipeline** in Python, combining feature optimization, dimensionality reduction, and structured dataset handling.

SKILLS

Python

Machine Learning

Deep Learning

Natural Language Processing

GitHub

MLflow

DagsHub

Flask

SQL

Airflow

Docker

ACHIEVEMENTS

Regional Level Basketball Player (2018)

Played Guitar at Social Science Exhibition (2017)

CERTIFICATES

Data Science Certification

ExcelR Hyderabad

Data Analysis Certification

Accenture (Forage)

Software Engineering Certification

Quantium (Forage)

LANGUAGES

English

Professional Working Proficiency

Hindi

Professional Working Proficiency

INTERESTS

Data Science

Data Analysis

Software Engineer

Machine Learning Engineer

MLOps Engineer