

Dhruv Belai

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EDUCATION

Northeastern University, Boston, MA

September 2023 – December 2025

Master of Science in Computer Science

Relevant Coursework: Programming Design Paradigm, Algorithms, Database Management Systems, Web Development

Universal College of Engineering, Mumbai, India

August 2020 – June 2023

Bachelor of Engineering in Computer Engineering

Relevant Coursework: Data Structures, Data Science, Big Data Analytics, Data Mining, Natural Language Processing

SKILLS

Languages: Python, Java, R, HTML, CSS, JavaScript

Databases: MySQL, PostgreSQL, SQLite, MongoDB

Applications: Git, Docker, PowerBI, Tableau, Excel, VMWare, Jupyter

Frameworks: Pandas, NumPy, Matplotlib, Seaborn, Keras, Scikit-learn, Transformers, PyTorch, PySpark, React, NodeJS

WORK EXPERIENCE

Teaching Assistant | DS 3000: Foundations of Data Science

September 2024 – December 2024

Northeastern University, Boston

- Guided students in **data cleaning, analysis, and visualization** using Python (Pandas, NumPy) for coursework projects.
- Assessed **machine learning** and **statistical models**, giving feedback to strengthen **data-driven problem-solving** skills.

Data Analyst Intern

May 2019 – June 2019

Nibodh Educare, Mumbai, India

- Led comprehensive data processing, and analytical modelling, transforming raw data into structured formats using Python's **NumPy** library, identifying **key insights** and presented findings resulting in a **10% enhancement in KPIs**.
- Leveraged **Microsoft Azure** cloud services to **optimize data storage** and **ELT data pipelines**, resulting in a **30% reduction in infrastructure costs** while maintaining high scalability and reliability for the **data analytics** platform.
- Designed **dynamic dashboards** in **Tableau**, using Git for version control, to effectively communicate **key trends**, facilitating **data-driven decision-making** and driving measurable improvements in **business performance**.
- Communicated findings and recommendations to **stakeholders** in a clear and concise manner, fostering understanding and enabling **informed decision-making** processes across departments within a collaborative Scrum team environment.

PROJECTS

Project Roofs

October 2023 – December 2023

- Executed **SQL Scripting** operations through optimized **stored procedures**, significantly improving data consistency.
- Employed Pandas for efficient **data analytics** and Matplotlib for better decision making through **data visualizations**.
- Followed **clean coding** practices, enabling seamless extension of the application's functionalities and **maintainability**.

Handwritten Text Recognition using OCR

November 2022 – April 2023

- Utilized **Transformers**-based OCR model to store and save handwritten notes into **cloud** using the Google Drive API.
- Achieved **87.3%** text recognition accuracy by **fine tuning** the model and employing **image preprocessing** techniques.
- Enhanced **accessibility** and **modularized** components utilizing Python's googletrans library for **language translation**.
- Authored "**English Handwriting Recognition using Advanced OCR**" in IJRAR (EISSN: 2348 – 1269).

CERTIFICATIONS

- AWS Academy Cloud Foundations October 2024
- FreeCodeCamp Machine Learning with Python (TensorFlow) June 2023
- IBM Essentials of AI and Cloud Computing February 2023
- AWS Academy Data Engineering January 2023
- IBM Machine Learning with Python (Scikit-learn) August 2022