

Ratan Kumar Majhi

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PROFILE

To work on an expanding job profile that provides an opportunity to enhance my technical skills and knowledge, could provide me with insight into new aspects that would be helpful for my career.

EXPERIENCE

Content Catalyst LLP

Kolkata, India

Technical Academic Researcher

Sep 2024 – Present

- Worked with Python, SQL, NoSQL to clean, process, and analyze datasets.
- Utilized ML and AI libraries (such as Pandas, NumPy, Scikit-learn, and TensorFlow) for predictive modeling and data visualization.

PERSONAL PROJECTS

Stock Analysis Pro

- Developed a Django-based stock analysis web application integrating Python, MongoDB, and external APIs for real-time stock tracking and portfolio analytics.
- Built an interactive dashboard using HTML, CSS, and Plotly for visualizing financial data and insights.

OpinionPulse – Online Polling Web Application

- Developed a full-featured online polling system using Django, SQLite, and Bootstrap, enabling users to create, vote, and analyze polls with dynamic result visualization and user authentication.
- Implemented features such as poll creation/editing, real-time vote tracking, permission-based access, and a visually engaging homepage using custom CSS and static assets.

GROUP PROJECTS

Intrusion Detection System

Jan 2024 – Jun 2024

- Machine Learning project Developing an advanced intrusion detection system using machine learning algorithms for real-time network security.
- Achieved a detection accuracy of 85% using unsupervised ML techniques such as K-Means and DBSCAN.

Bank Fund Transfer System

Feb 2024 – May 2024

- Full-stack web development project: A bank fund transfer system was developed using the Django framework.
- Built with Django and SQLite to ensure stable data handling with zero errors in testing.

Early Detection of Alzheimer's disease Using Machine Learning Techniques

Jul 2023 – Nov 2023

- Processed a dataset of 1,000+ records and 132 features from Kaggle for binary classification.
- Applied supervised learning models (Random Forest, SVM) achieving 87% accuracy.
- Used SMOTE to oversample minority classes, improving model balance by 40%.

EDUCATION

B. P. Poddar Institute of Management and Technology, Kolkata

2022-2024

Master of Computer Application (MCA) | MAKAUT | CGPA-7.91

Kolkata, West Bengal, India

Prabhat Kumar College, Contai

2019-2022

Bachelor of Computer Applications (BCA) | Vidyasagar University (V.U.) | 90.05%

Contai, West Bengal, India

Negua Sundar Narayan High School

2019

WBCHSE Board (Class XII) | 75.8%

Egra, West Bengal, India

Negua Sundar Narayan High School

2017

WBBSE Board (Class X) | 51.42%

Egra, West Bengal, India

SKILLS

Technical: Python, Django, SQL, Java, HTML, CSS

Software Tools: Power BI, Excel, Cisco, MongoDB

Concepts: oops

CERTIFICATIONS

- **Ardent Computech Pvt. Ltd.**: Full Stack web development with Django. Feb 2024 – May 2024
 - **Techinnovator Training**: The training consisted of HTML, CSS, Bootstrap, SQL and PHP modules. Apr 2022 – July 2022
 - Information Technology Application. Apr 2017 – July 2017

ACHIEVEMENTS

- Secured Elite with Silver Award In the NPTEL Online Certification conducted by SWAYAM NPTEL.
 - Elixir'23 Cultural Fest of BPPIMT Discipline Team Member.

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