Bhaskar Ranjan Karn

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Profile

Aspiring Machine Learning Engineer with strong foundation in Python, data preprocessing, model development, and deployment. Experienced in building end-to-end ML pipelines, applying algorithms for classification and recommendation, and working with tools like Scikit-learn, TensorFlow, and cloud platforms like GCP and AWS.

Education

Integrated MSc. in Mathematics and Computing   2021 – 2026
Birla Institute of Technology Mesra
CGPA - 8.5

Professional Experience

Subject Matter Expert   2023 | Remote
Chegg Pvt. Ltd.
- Taught and mentored students preparing for JEE and Board examinations, focusing on conceptual clarity and exam strategies.
- Curated subject-specific content and learning materials to support structured and effective teaching delivery.

Web Content Writer   2022 | Remote
Nettv4u
- Created SEO-optimized articles through in-depth research to increase online visibility and engagement.

Skills

Programming Languages: (Python,C++), **Machine Learning & Data Science:** (Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, Keras, PyTorch, Jupyter Notebook, Google Colab), **Web Technologies & Frameworks:** (HTML, CSS, JavaScript, Node.js, Django, Flask, React.js), **Databases & Cloud:** (SQL, MongoDB, AWS, GCP, Looker,Amplitude), **Developer Tools:** (Git, GitHub, VS Code, PyCharm, Docker, Streamlit), **Software & Utilities:** (MATLAB, MS Excel, PowerPoint)

Projects

MovieMate: A Personalized Movie Recommendation System
- Built a collaborative filtering-based movie recommender system using Python, Pandas, and Scikit-learn.
- Implemented data preprocessing and model evaluation to generate accurate user-based movie suggestions.

Personal Finance Tracker with Cloud Integration
- Developed a Flask-based web application for expense tracking and visualization using HTML, CSS, JS.
- Integrated Google Cloud Firestore for persistent storage and deployed with responsive UI.

Publications

Systematic Review of the Factors Influencing Carbon Emissions   10/2024
Growth Rate in Indian States and Union Territories: An MCDM
Approach
-Ongoing
This review analyzes carbon emissions across Indian states and UTs using Excel for 13 factors, highlighting the need for advanced research and a balanced approach to achieve carbon neutrality and sustainable development.

Relevant Coursework

- Data Structures
- Algorithms Analysis
- System Design
- Database Management
- Machine Learning
- Computer Networks
- Operating System
- Computer Graphics

Certificates

Linguaskill English Language Proficiency Certification
Achieved an **average score of 180+ (C1 level)** in the Linguaskill assessment, demonstrating advanced English proficiency in **Listening, Reading, and Writing**, with a **B2 level** in **Speaking**.

Summer Analytics'24 – IIT Guwahati
- Gained hands-on experience with essential tools and techniques for data-driven decision-making.
- Worked on practical projects involving real-world datasets to apply data analysis methodologies.

Languages

- English
- Hindi
- Bengali
- French

Leadership/Extracurricular

2021 – 2022
- Member of Team Srijan (Racing Club of BIT) in media team. Created timeline and posts for the social media page of the club.