

RATIKESH KUMAR SINGH

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EDUCATION

BNM Institute of Technology

B.E. in Artificial Intelligence and Machine Learning

CGPA: 8.46

2021-2025

Notable Coursework: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming (OOPs), Database Management Systems (DBMS), Big Data, Statistics for Engineers, Engineering Mathematics, Natural Language Processing (NLP), Machine Learning (ML), Artificial Intelligence (AI), Cloud Computing, Image Processing

EXPERIENCE & WORK HISTORY

Data Science Intern

August 2023 – September 2023

DigiAlly Global

- Enhanced the Credit Analysis Model using the Random Forest Algorithm, boosting accuracy by 8% and contributing to the AI-powered Trust SME score.
- Employed Python, Tableau, and MS Excel for data preprocessing, visualization, and dashboard creation, streamlining SME evaluations and portfolio monitoring.
- Conducted thorough SME assessments integrating operational, market, and credit risks, offering insights to financial institutions for informed lending decisions.

Data Science Intern

June 2023 – August 2023

Academor

- Automated an Expense Management Software, reducing manual effort by 30% and lowering error rates by 25%.
- Developed a Loan Approval Model achieving a 95% accuracy rate in predicting loan approvals.
- Enhanced a Visualization Dashboard with Tableau, improving data insights and resulting in a 15% increase in actionable insights.

PROJECTS

Cloud Based Expense Tracker Web Application — React, Firebase, Fullstack

June 2024 – July 2024

- Constructed the frontend using React and crafted UI components with HTML, SCSS, and JavaScript.
- Configured Firebase Cloud storage and added robust user authentication for enhanced security and user experience.

Algorithmic Trading Model for BTC/USDT — Python, Pandas, NumPy, Matplotlib

September 2023 – December 2023

- Formulated and applied algorithmic trading strategies using SMA, EMA, and mean reversion techniques for BTC/USDT.
- Conducted thorough backtesting to evaluate strategy performance.
- Devised and integrated risk management protocols, such as stop-loss and position sizing, to optimize trading outcomes.

Chassy - Avatar-based AI Personal Assistant — GPT-4, NLP, React, Blender, Python

July 2023 – October 2023

- Designed a React-based frontend integrating a 3D avatar (.fbx format).
- Implemented Speech Recognition, Speech-to-Text, and Text-to-Speech features for optimized user interaction.
- Engineered backend APIs and prompts using Node.js to enhance user-friendly outputs.

SKILLS

Languages: Java, Python, C, C++, HTML, CSS, SQL, PHP, JavaScript

Frameworks: React, Node.js, Express.js, Django, Flask

Tools: Git, GitHub, RESTful APIs, GPT

Clouds & Databases: AWS, Google Cloud, IBM Cloud, MongoDB

Others: MS Excel, PowerBI Linux, Software Testing, PostgreSQL, Data Structures and Algorithms (DSA), DBMS

AWARDS & HONORS

Winner of Hackazon 2024, a 24-hour hackathon organized by AMCEC Bangalore.

Secured 2nd Rank in Paper Presentation Competition, Sankalan'24, IIT Kanpur, for the Research Paper on AI-assisted Traffic Management System.

RESEARCH

Intelligent Traffic Management System: A Holistic Approach towards Efficiency, Safety, and User Engagement

POSITIONS & RESPONSIBILITIES

Committee Member of BNMIT Social Media Club

Organized and hosted the BrandCraft event for BNMIT Club Day

Performing Artist in the cultural club, Kalabhagirathi

Volunteered at the Blood Donation Camp organized by YFP

Volunteered at various NSS events

COURSEWORK

Java (Basics) Skill Assessment Test HackerRank

Python (Basics) Skill Assessment Test HackerRank

Introduction to Cloud Computing IBM Skills Build

Introduction to Web Development with HTML, CSS, JavaScript IBM Skills Build

Getting Started with Git and GitHub IBM Skills Build

Probability Distribution Using Python Infosys Springboard

Strategy Formulation & Data Visualization IIT Madras