Akarshan

akarshan.1@iitj.ac.in | +91-9102845474
LinkedIn | Github | Portfolio

EDUCATION

IIT JODHPUR
B.TECH IN Engineering Science ,majors in computer science and communication
2020-2024 | Jodhpur, India
CGPA: 7/10

JESUS AND MARY ACADEMY
CLASS 12 | CBSE Board
2019 | Darbhanga, India
Percentage: 95/100

MADONNA ENGLISH SCHOOL
CLASS 10 | ICSE
2017 | Darbhanga, India
Percentage: 91.3/100

COURSEWORK

DATA SCIENCE
Machine Learning
Machine Learning with big data
Probability, Statistics and Stochastic Processes
Design and Analysis of Experiments
Data Analyst Lab

CORE COURSES CSE AND EE
Data Structure and Algorithms
Database Systems
Operating system
Computer Networks
Design and Analysis of Algorithms
Computer Architecture
Signals and Systems
Communication Systems
Modern Communication Systems

SKILLS

CORE SKILLS
- C • C++
- Python • R
- Pandas • Scikit-learn
- Matplotlib • Seaborn

Development
- SQL
- HTML
- CSS

SOFTWARES
- Power BI
- My SQL
- Cisco Packet tracer
- Netlogo

PROJECTS

.LAPTOP PRICE PREDICTOR : A MACHINE LEARNING BASED APPLICATION
Self Project | Streamlit | Github
- Developed and deployed a machine learning model for laptop price prediction, considering RAM, manufacturer, and screen size as key factors.
- comprehensive exploratory data analysis,visualized price correlations,and conducted insightful multivariate analysis to uncover pricing trends.
- Employed feature engineering,and meticulously optimized machine learning models through hyperparameter tuning,to expertly select the best-suited model, showcasing strong skills in data science and machine learning and Trained the model using Random Forest.

ADVENTUREWORKS DATA ANALYSIS AND VISUALISATION PROJECT
Self Project | Github

- Spearheaded the creation of an interactive KPI dashboard in Power BI, utilizing DAX to transform CSV data into a relational model. The dashboard delivered crucial insights on sales, revenue, profit, and returns.
- Leveraged Power BI to analyze regional performance and product-level trends,using slicers, charts,plots empowering data-driven decision-making.
- Identified high-value customers through calculated measures and maps, showcasing a dedication to meeting strategic business goals and facilitating informed decision-making.

OPTICRON:AN AI BASED VOICE ASSISTANT - SPEECH ANALYSIS AND PYTHON-BASED APPROACH
Self Project | Github

- Innovatively crafted an AI-based voice assistant with dynamic greetings and , adeptly launching apps and playing music in response to speech by doing speech-to-text conversion.
- Enabled real-time data retrieval, weather forecasting, and news delivery through APIs, ,Demonstrating expertise in Python, emphasizing innovation, automation, and dedication to enhancing user experiences with advanced technology solutions.

KEY ACHIEVEMENTS
- Successfully did "Microsoft Power Bi For Business Intelligence" an Apprenticeship with Udemy | Certificate.
- Successfully competed with 10,00,000 eligible students in Joint Entrance Examination 2020 and ranked in the top 2 percent participants.
- Within top 3 ranks in district in class 10th and 12th.

POSITION OF RESPONSIBILITY

DEPARTMENT EXECUTIVE | Engineering Science Department
AY 2022 - 2023

- Cordinated with the secretary and provided insights in the budget formation of the department for the financial year.
- Coordinated in smooth conduct of activities and events under the socities.