Rahul Kumar Dutta

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Bachelor of Technology
Techno Engineering College Banipur,Kolkata

EDUCATION

Bachelor of Technology in Computer Science and Engineering *2019-2023*
Techno Engineering College Banipur,Kolkata CGPA: 8.96

Intermediate *2017-2019*
Adarsh Vidya Mandir, Bokaro Percentage: 73.83

Matriculation *2015-2017*
Rainbow Public School, Bokaro CGPA: 9.2

PERSONAL PROJECTS

Disease Prediction System Web App

A Disease Prediction Web App uses AI to predict health conditions from user data.

- Technical Skills: Python,SQL,Machine Learning,Data Analysis,Streamlit,HTML,CSS,Heroku
- This project utilized a range of supervised ML algorithms like Logistic Regression, Decision Trees, Random Forest, KNN, and SVM for disease prediction.
- Reached an accuracy rating of higher than 95%.
- Offers home remedies, doctor availability, and appointment booking for predicted diseases to patients.
- Doctors can access appointment bookings, patient information, and communicate via email for video calls.
- Utilized a Disease Dataset sourced from Kaggle.

Facebook Clone Using HTML and CSS

Developed a Facebook Clone using HTML and CSS to practice front-end web development and user interface design.

- Technology Used: HTML, CSS, JavaScript and any additional libraries or frameworks.
- Responsive design for various screen sizes.
- Use of CSS for styling, including fonts, colors, and layouts.
- Features: User registration and login forms, Newsfeed or timeline.
- Deployment of Facebook Clone Website to Netlify.

Banking Management System Using Java

Developed a banking management system using Java and MySQL for efficient account and transaction management.

- Technology Used : Java,MySQL
- It employs a multi-tier architecture for efficient banking operations.
- The features we offer are: Display all account information,Search with the account number,Invest the money,Takethe money out.

A Web-Based Tool for Detecting Breast Cancer.

This web-based application employs a machine learning algorithm to assess the presence of breast cancer in women.

- Leveraged SQL, Machine Learning, Python, Data Analysis, Streamlit, HTML, CSS, and Heroku in project devel-opment.
- Incorporated a dataset related to breast cancer, sourced from Kaggle, as a fundamental component for analysisand model development.
- This project used diverse supervised ML algorithms, including Logistic Regression, Decision Trees, Random Forest, KNN, and SVM, for detecting breast cancer.
- Achieved an accuracy rate exceeding 90%.
- The Standard Scaler is employed to transform features, ensuring a mean of 0 and a standard deviation of 1.
- Utilized Data Analysis and Visualization to extract insights from the dataset.

Advanced House Price Prediction- Exploratory Data Analysis

The primary objective of this project is to forecast housing prices using multiple features.

- Utilized the following technologies: Python for programming and Data Analytics for comprehensive data analysis.
- Forecast sales prices and apply feature engineering, Random Forests (RF), and gradient boosting techniques.
- The Data Cleaning Process is used to transform unclean and impure data into information that is useful.
- Leveraging both numerical and categorical variables, Machine Learning techniques are applied to ascertain thevalue of a house.

Experience

Data Science and Business Analytics Intern *Feb 2022*

The Sparks Foundation Online

- The aim of this project is to predict percentages by analyzing a student's study hours.
- Python Pandas was used for data cleaning, exploration, and visualization.
- Enhanced accuracy by employing machine learning and statistical modeling tools to develop and assess algorithms.

Data Science Intern *Mar 2022*

LETSGROWMORE Online

- The objective of this study is to predict the target names ('setosa', 'versicolor', and 'virginica') for unknown irisflower species using their sepal, petal, and ovary characteristics (length and width).
- Data exploration and visualization were conducted using Python Pandas.
- To enhance accuracy, employed Machine Learning and statistical modeling tools to develop and assess algorithms, leading to improved performance.

Technical Skills and Interests

Technical Skills: C/C++, Java, Python, Data Analysis, JavaScript, HTML+CSS, Machine Learning, Power BI Desktop, MS Excel, MS Office
Libraries :Python Libraries, ReactJs
Web Dev Tools:VScode, Git, Github
Frameworks: ReactJs
Cloud/Databases: Relational Database (MySQl), SQL
Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Web Design and Development, Data Science, Software Development.
Soft Skills: Problem Solving, Self-directed Learning, Presentation, Adaptability, Research.

Certifications

- **Crash Course on Python (Coursera)**
- **Introduction to SQL(DataCamp)**
- **Foundations: Data, Data, Everywhere (Google Data Analytics Professional Certificate)**
- **Ask Questions to Make Data-Driven Decisions (Google Data Analytics Professional Certificate)**
- **Prepare Data for Exploration (Google Data Analytics Professional Certificate)**
- **Process Data from Dirty to Clean (Google Data Analytics Professional Certificate)**
- **The Joy of Computing Using Python (NPTEL)**