ABHISHEK YADAV

Roll No.:B22ES020
Bachelor of Technology
Engineering Science (CSE(Major) + EE)
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EDUCATION

Degree/Certificate	Institute/School	Year
B.Tech. (CSE+EE)	Indian Institute of Technology, Jodhpur	2022-Present
Class XII	Lohia Inter College, Prayagraj (UP board)	2020-21
Class X	Lohia Inter College, Prayagraj (UP board)	2018-19

EXPERIENCE

- **Software Engineering Intern [Company : Softwired]** *Dec 2024 - Current*
  Remote
  As a Software Engineering Intern at Softwired, I develop algorithmic trading strategies using Pine Script, analyze market trends, integrate Python APIs for automation, and contribute to Django-based backend and React.js frontend development. I collaborate daily with my team to deliver scalable and efficient solutions for stock market automation and consulting projects.

- **Machine Learning Intern [Encryptix]** *May 2024 - June 2024*
  Remote
  Completed a 4-week virtual internship at Encryptix. Focused on developing skills in Machine Learning, I gained hands-on experience with data preprocessing, feature engineering, and model development. Collaborated with a team to address real-world problems using machine learning techniques and delivered a final project demonstrating practical applications of machine learning.

PROJECTS

- **Infectious Virus Detection System [Operating Systems Project]** **GitHub Link**
  Developed an System in which Implemented signature-based file scanning and process monitoring using Linux system calls and APIs. Leveraged machine learning models to enhance detection accuracy and adaptability for identifying malicious behaviors. Integrated real-time alerts and logging for effective threat response.

  C | Ubuntu | Signature-based detection | File scanning | Process monitoring | Parallel programming | Threat log

- **Metro Navigator** **GitHub Link**
  Developed a C++ Metro Navigator software for Delhi Metro, utilizing AVL trees for managing metro stations and identifying junctions. Implemented a pathfinding algorithm for optimal route planning and fare calculation across multiple lines. The system supports real-time data retrieval, ensuring efficient navigation and handling of large datasets with minimal computational overhead.

  C++ | OOPs | Data Structures | Algorithm | AVL Trees | file handling | Linked List | Queues

- **Spam Sms Detection [Machine Learning]** **GitHub Link**
  Developed an AI model for spam SMS detection using machine learning, achieving 98% accuracy with Logistic Regression and SVM. Leveraged TF-IDF for feature extraction, ensuring robust differentiation between spam and legitimate messages.

  Machine Learning | Logistic Regression | SVM | TF-IDF | Model Tuning | Evaluation Metrics

- **Other Projects** : Other web dev,Machine learning and IoT Projects to check details click on ——> **Details**

KEY COURSES TAKEN

- **Computer Science :** Introduction to Computer Science, Data Strucures and Algorithms, Pattern Recognition and Machine Learning ,Operating Systems ,Database Management systems , Computer Architecture, Design Analysis of Algorithms
- **Mathematics and Other Imp Course :** Mathematics I and II (Linear algebra, calculus ,Diff eq. etc) , Probability Statistics and Stochastic Processes, Design Analysis of Experiments , Embedded Systems & IoT.
- **Ongoing Imp Courses:**Computer Networks,Deep Learning,Comupter Vision,Virtualization & Cloud Computing.

TECHNICAL SKILLS

- **Programming & Web Skills:** C,C++, Python,JavaScript, Matlab , PineScript , HTML , CSS, Reactjs , Django
- **Tools & OS:** Git , Github , Google Colab, Windows, Ubuntu, Jupyter Notebook, SQL ,Celery , AWS
- **Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Seaborn, Sklearn, pytorch

ACHIEVEMENTS

- **Secured Rank 1** in Data Analysis of Experiments course. *2024*
- **Ranked within the Top 3** in the courses Embedded Systems and IoT *2024*
- **Codechef** Achieved a 3-Star rating on Codechef in five contests. Current rating: 1696 *Profile link*
- Solved more than 300 Programming questions on many coding platforms. *2022-Current*
- Ranked in the top 5% in JEE Mains and the top 2% in JEE Advanced out of over 1 million students. *2022*