AAYUSH KATARIA

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EDUCATION

Jaypee University Of Information Technology   **2022 – present**
B.Tech - IT | ***CGPA - 6.56***   *Solan, Himachal Pradesh*

EXPERIENCE

Raino-chem Process Technologies (Software Developer Intern)

- Developed and maintained responsive web applications using React.js, JavaScript, and CSS, ensuring compatibility across devices and browsers.
- Built modular and reusable React components, reducing development time and improving maintainability.
- Implemented API integration with Axios for dynamic data fetching and state management.

PROJECTS

Lock n Trust | Python, Tkinter, Pillow, Cryptography (AES-GCM), PBKDF2, TensorFlow.js

- ∗ Built a secure file vault using Python, Tkinter, AES-GCM, and PBKDF2.
- ∗ Encrypted file chunking and indexing using AES-GCM and PBKDF2 for secure and efficient storage.
- ∗ Planned AI-based anomaly detection and password strength prediction using TensorFlow.js for enhanced security.

MRI Brain Tumour Detection With CNN   Python,TensorFlow,OpenCV,Pandas and Matplotlib

- ∗ Developed a CNN model for accurate brain tumor detection and localization from MRI scans.
- ∗ Enhanced model robustness using image preprocessing and data augmentation on limited MRI data.
- ∗ Implemented preprocessing and augmentation to boost CNN performance on MRI scans.

EggnHealthCare | Java, Servlets, JDBC, MySQL, HTML, CSS, Apache Tomcat.

- ∗ Developed a healthcare management system using Java Servlets and JDBC for seamless database interactions with MySQL.
- ∗ Implemented user authentication, appointment booking, and automated test report generation with dynamic HTML/CSS frontend.
- ∗ Deployed on Apache Tomcat using Ant for build automation, ensuring efficient server-side processing.

PCA-KMeans Clustering Pipeline   Python, Matplotlib, Custom PCA K-Means algorithms.

- ∗ Implemented PCA from scratch to reduce 2D data to 1D for efficient clustering.
- ∗ Developed a custom K-Means algorithm to classify reduced data into meaningful clusters.
- ∗ Visualized original and clustered data using Matplotlib for interpretability and insights.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, HTML, CSS, JavaScript
Libraries: Tensorflow, Keras, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn
Relevant Coursework: OOPS, DBMS, Comupter Architecture, Operating Systems

ACHIEVEMENTS

Active Member of JUIT Kabaddi Team   Nov 2024 – Present
Waknaghat, Solan

- · Collaborated with teammates to strategize and represent the university in inter-university tournaments.
- · Exhibited discipline, endurance, and leadership to boost team cohesion and performance..

CERTIFICATIONS

- Data Visualization - Infosys
- Machine Learning - Infosys