Akhil Sharma

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Education

- **Bachelors of Technology (Computer and Electronic)**
  Thapar Institute of Engineering and Technology,   *2021-25*
  CGPA: 7.73

Work Experience

- **MRCC Transformation Solutions** | Software Development, Intern   **Onsite**-Noida | July 2024 - August 2024
  - Developed streamlined troubleshooting skills in Cloud environments.
  - Studied various AWS services such as **EC2, S3, RDS**, and **Lambda**.
  - Implemented solutions using AWS infrastructure and services.
  - Developed an Face Recognition Service using AWS Rekognition, AWS Lambda S3 and Dynamo DB.   Github ↗
  - Deployed a Frontend Project made in React on **EC2 Ubuntu Instance** for scaling opportunity in future.   Demo ↗

Academic Projects

- **Agrofinance-Blockchain-based Decentralized Loan Solution** | Ethereum blockchain, Solidity, Web3.js.
  - Currently working on a decentralized solution providing financial services to farmers' loan-based needs using blockchain technology **enabling 24/7** access to loans.
  - Implemented smart contracts and blockchain protocols to ensure transparency and security in financial transactions.

- **House Price Prediction Model** | Linear Regression, Kneighbor, Decision Tree, Random Forest.   Github ↗
  - Developed a robust **ML** model for house price prediction using a diverse real estate dataset.
  - Conducted comprehensive exploratory data analysis (EDA) to identify correlations and trends.
  - Fine-tuned hyperparameters through cross-validation and evaluated model performance using metrics like Mean Absolute Error (MAE) and R-squared achieving R-squared **score of 0.97**.

- **Thapar OLX** | MongoDB, Express.js, React.js, Node.js (MERN stack).   Github ↗ | Demo ↗
  - Implemented a college marketplace platform similar to OLX for buying and selling items within the campus community tested by over **40+ users**.
  - Users can list items for sale, browse listings, and communicate with sellers/buyers using listed phone numbers

- **Xeno CRM** | Next.js, Node.js, MongoDB, RabbitMQ, Firebase   Github ↗ | Demo ↗
  - Developed a **Mini CRM** and Campaign Management application with APIs for ingesting customer and order data, scalable audience segmentation using AND/OR logic, and secure Google-based authentication for accessing campaign history and statistics
  - Built scalable backend architecture using a **pub-sub** model for data validation and asynchronous storage. Designed APIs for personalized message delivery with dynamic status updates, optimized batch processing, and integrated a React.js/Next.js frontend with MySQL/MongoDB for seamless data management and user experience.

Skills

- **Languages:** C++, HTML, CSS, JavaScript, Python.
- **Relevant Course Work:** Cloud Computing, DSA, DBMS, OOPS, OS, Computer Networks, Deep Learning.
- **Framework and Libraries:** ReactJs, ExpressJs, NodeJs, Next.js, Bootstrap, Pandas, Numpy, Seaborn, Matplotlib.
- **Databases:** MongoDB.

Achievements

- Completed Cisco Netcad Academy Cybersecurity Course.   Certificates ↗
- Solved more than **250+** DSA questions.   Github ↗
- Awarded the scholarship by Thapar University for being top **10%** in my department.