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Programming Skills

- **Languages**: Java, Python
  Frontend: ReactJS, Redux Toolkit, React Router, JavaScript, Bootstrap, Tailwind CSS, HTML, CSS
  Backend: Spring, Spring Boot, Hibernate, FastAPI, ExpressJS
  Databases: SQL (MySQL), NoSQL (MongoDB)
  Libraries: TensorFlow, scikit-learn, pandas, NumPy, Matplotlib, Seaborn
  Tools: Git, GitHub

  Machine Learning & Data Handling: Machine Learning, Data Cleaning, Data Preprocessing, Feature Engineering, Model Evaluation, Hyperparameter Tuning

Projects

- **House Price Prediction**:
  - **Data Cleaning**: Handled missing values, converted "2 BHK" to numeric, standardized `total_sqft`, one-hot encoded location/area type, and retained 70% of rows for training.
  - **Outlier Removal**: Removed extreme values using bath/bed ratio, sqft per room, and IQR filtering to improve data quality and reduce noise.
  - **Modeling & Deployment**: Trained Linear, Ridge, and Lasso regressions; Ridge Regression ($\alpha = 1$) performed best with 60% accuracy. Deployed with FastAPI backend and HTML frontend for real-time predictions.
  - **Website**: Website: https://housepricepredictionmodelweb-production.up.railway.app/

- **Personal Portfolio Website**:
  - **Frontend**: Built responsive website using ReactJS, React Router, and Redux to manage state and enable smooth navigation.
  - **Hooks**: Implemented interactive UI components using React Hooks (`useState`, `useEffect`) for dynamic behavior.

  - **Styling**: Styled components with custom CSS and Tailwind to achieve a clean and modern design.
  - **Website**: Website: https://portfolio-web.up.railway.app/

- **Hangman Game (Java)**:
  - **GUI**: Created an interactive interface for gameplay and user interaction.
  - **Logic**: Implemented word selection, letter tracking, and visual feedback for correct and incorrect guesses.
  - **Replay**: Added dynamic resets for multiple game sessions without restarting the application.
  - **Website**: Website: https://hangman-web.up.railway.app/

Experience

- **Infosys Java Foundation Course**: Completed an in-depth course on Java programming through Infosys Springboard. Gained solid understanding of core Java, object-oriented principles, and hands-on experience with control structures, inheritance, and exception handling.
- **Data Science Course**: Completed a comprehensive Data Science program involving real-world projects. Acquired practical skills in data preprocessing, exploratory data analysis, supervised and unsupervised learning, and working with Python libraries like NumPy, Pandas, Scikit-learn, and Matplotlib.
- **Artificial Intelligence Foundation Certificate**: Earned certification from Infosys Springboard covering foundational concepts in Artificial Intelligence. Gained insights into AI applications, machine learning workflows, natural language processing basics, and responsible AI practices.

Education

- **Chaitanya Bharati Institute of Technology (CBIT)** — Hyderabad
  Bachelor of Engineering in Computer Science — *Nov 2022 – 2026*

- **Narayana Junior College** — Madhapur, Hyderabad
  Intermediate in MPC — Marks: 970/1000 — *Jun 2020 – Jul 2021*