JASMEEN KAUR

Nangal, Punjab

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Projects

Diabetes Prediction Model

Technologies: Python, Machine Learning, sklearn, pandas

- Built a machine learning model with 75% accuracy for diabetes prediction.
- Improved data quality by reducing errors 40% through advanced feature engineering on 10,000+ entries.
- Utilized sklearn and pandas libraries to process 100,000+ data points, optimizing algorithm performance and scalability.
- Improved prediction latency by 30%, reducing processing time from 2 seconds to 1.4 seconds per entry.
- Validated the model across 5 different datasets, achieving consistent performance improvements of 20% compared to baseline models.
- Increased dataset size by 25% through data augmentation techniques, expanding the dataset from 10,000+ to 12,500+ entries for enhanced model training.

Expense Tracker

Technologies: HTML, CSS, JavaScript, ReactJS, Node.js, MongoDB

- Designed an Expense Tracker system to process and analyze 1,000+ mock transactions, enabling accurate tracking of daily, weekly, and monthly expenses.
- Enhanced data retrieval speed by 30% through better data organization and streamlined storage methods.
- Added a budget alert feature that allowed users to set limits and track spending trends, reducing manual effort by 40%.
- Created a dashboard using ReactJS and Bootstrap, ensuring functionality and responsiveness on 100% of tested devices.
- Used MongoDB to handle data for 10+ test scenarios, enabling efficient query execution for various use cases.
- Reduced navigation delays by 25% by implementing efficient real-time updates for local testing.

Education

Bachelor of Technology in Computer Science Engineering   **Landran, Punjab**
Chandigarh Group of Colleges   *July 2021 – June 2025 — CGPA: 7.6*

Intermediate (PSEB)   **Naya Nangal, Punjab**
Fertilizer Senior Secondary Smart School   *April 2018 – March 2019 — Percentage: 72.6%*

Matriculation (PSEB)   **Nangal, Punjab**
Khalsa Model School   *April 2016 – March 2017 — Percentage: 82.6%*

Technical Skills

- **Languages:** C, C++, Python, HTML, CSS, JavaScript
- **Frameworks:** ReactJS
- **Databases:** MySQL, MongoDB
- **Tools:** VS Code, Visual Studio
- **Concepts:** Object-Oriented Programming, Data Structures Algorithms, Operating Systems, Computer Networks

Academic Achievements/ Co-Curricular events

- Stood third in an Inter Department Coding Competition.
- Participated in Hack Fest (SAP), contributing solutions for real-time technical challenges.

Certifications

- ReactJS Development | Solitaire Infosys, Chandigarh
- C++ Programming | Bright Career Solutions
- C Programming | Bright Career Solutions