KIRTI KOUR

Karachi-pakistan

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Summary

Aspiring **Software Developer** skilled in **Python, C++, Java, JavaScript,Reactjs**, with expertise in **F**ull-Stack Web Development and Machine Learning . Proficient in **building scalable applications, optimizing algorithms, and integrating REST APIs**. Strong foundation in **state management, performance optimization, and database management**. Passionate about **technology, innovation, and continuous learning**, with a keen interest in **Generative AI, Agentic AI and software optimization**.

Technical Skills

Programming Languages: Python, C++, Java, JavaScript, SQL
Frontend Development: HTML5, CSS3, React.js, Next.js, Tailwind CSS, Bootstrap
Backend Development: Node.js, Express.js, MongoDB, FastAPI, Django
Machine Learning & Data Science: TensorFlow, NumPy, Pandas, Scikit-learn, Seaborn, Matplotlib, NLP, Pytorch
Development Tools: Git, GitHub, VS Code, Postman, kaggle, google collab
UI/UX Design: Figma, Canva

Projects

Healar – Medical Test & Drug Search Platform   **MERN Stack Project**

- Developed a full-stack platform using ReactJS, Node.js, and MongoDB to search 5000+ medical drugs/tests, manage bookings, and handle cart operations.
- Integrated FDA API with fallback data; implemented conditional rendering and a quantity-controlled cart system, improving user experience by 30%.

Handwritten Notes Recognition System   **AI/ML Project**

- Built a CRNN model with CTC loss achieving over **90% accuracy** on **30,000+ handwritten images** from the IAM dataset.
- Created a React-Django UI for uploading scanned notes and viewing real-time predictions.

Cookify – Recipe Management Web App   **Full-Stack Web Project**

- Developed a recipe app with search, category filtering, and responsive design using React, Django, and Bootstrap.
- Improved performance by **30%** through optimized rendering and pagination.

Technologies: ReactJS, Node.js, MongoDB, Django, TensorFlow, Bootstrap,python,JavaScript,Express js, and CRNN model

Education

Sukkur IBA University

Bachelor of Science in Computer Science | Year of Completion : 2026
CGPA: 3.68/4

Relevant Coursework

Data Structures & Algorithms, Object-Oriented Programming (OOP), Machine Learning, Generative AI, Web Development, Enterprise Application Development, Database Management, Natural Language Processing (NLP)

Certifications

- **Django for Everybody**, **Intro to MongoDB**
- **Programming with JavaScript**, **Web Development with HTML/CSS/JavaScript**

Achievements

- **Awarded STHP Scholarship** – Selected among top students across Sindh for a fully funded merit-based scholarship at Sukkur IBA.
- **WordPress Intern at SEO, Sukkur IBA**