



Sandeep Kumar

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Sukkur, Sindh - 65200, Pakistan

OBJECTIVE

Seeking a challenging opportunity in computer science to leverage my expertise in AI and web development. Aiming to contribute to innovative projects at the intersection of emerging technologies and problem-solving, particularly in AI-powered systems and software development.




EXPERIENCE




- **Flutter Sukkur Community**  January 2024 - Present
Developer Sukkur, Pakistan
 - Engineered cross-platform mobile applications using Flutter and Dart, improving app performance and responsiveness
 - Developed modular UI components and reusable widgets, increasing development efficiency and maintainability
 - Implemented automated testing and CI/CD pipelines, reducing deployment time
 - Conducted functional and integration testing to validate app stability, ensuring a seamless user experience across Android and iOS
- **Natioanl Incubation Center**  November 2023 - April 2023
Web Developer and Chief Operating Officer Sukkur, Pakistan
 - Developed a streamlined operational workflow for an early-stage startup, achieving a 75% acceleration in product readiness and team efficiency
 - Implemented a responsive web platform using React.js, HTML, CSS, JavaScript, and Firebase, enhancing MVP usability and stakeholder engagement by 60%
 - Conducted analysis on user interaction data to identify usability bottlenecks, leading to targeted UI improvements and higher user satisfaction
 - Presented project outcomes and performance metrics during internal demo sessions, receiving recognition from founders for technical excellence and leadership

EDUCATION

- **Sukkur IBA University,** October 2021 - July 2025
Bachelor of Computer Science Sukkur, Pakistan
 - GPA: 2.7/4.00
- **Govt.Degree College Bozdar Wada** October 2021
HSC - Pre-Engineering Khairpur, Pakistan
 - Grade: A1
- **Global Public School Talpur Wada** July 2018
SSC - Science Khairpur, Pakistan
 - Grade:A

PROJECTS

- **WebDesign2Code – FYP Project Sukkur IBA University** September 2024 – May 2025
Tools: React.js, Node.js, Firebase, GPT-4.5, Image Segmentation 
 - Developed an AI-powered system that converts design mockups (Figma, XD, PNG) into clean HTML/CSS code for rapid web prototyping
 - Implemented GPT-4.5 and image segmentation for accurate UI element recognition and layout generation
 - Created a Firebase-based real-time admin dashboard for managing uploads, feedback, and user analytics
 - Integrated prompt-based code editing and preview, improving developer iteration speed by 90%
- **File Malware Detection Web App – Automated Threat Classifier** March 2025
Tools: Flask, Python, XGBoost, HTML, CSS, JavaScript 
 - Developed a Flask-based malware detection web application to scan and classify potentially harmful files
 - Implemented an XGBoost model with a custom feature extraction pipeline, achieving over 90% accuracy
 - Created a secure upload system with real-time file validation and safe execution environment
 - Designed an intuitive UI for displaying scan reports and model predictions
- **Medication Tracker Mobile App – Personal Health Management Tool** January 2025 – June 2025
Tools: Android Studio, Kotlin, Firebase Authentication, Cloud Firestore 
 - Developed a cross-platform Android app for tracking user medication intake and generating daily reminders
 - Implemented Firebase Authentication and Firestore for real-time data synchronization

- Created a responsive and accessible UI ensuring seamless user experience across devices
- Applied push notification scheduling to enhance medication adherence and consistency
- **Nao Robot Soccer Game – CRAIB Lab Sukkur IBA University** September 2023 – October 2023
Tools: ROS, Python, NAOqi SDK 
 - Developed AI logic for Nao humanoid robots to autonomously play soccer using real-time computer vision
 - Implemented movement coordination, ball tracking, and goal-targeting algorithms in ROS
 - Conducted multiple test simulations and real-world demos during departmental AI showcase
 - Enhanced decision-making accuracy and robot coordination efficiency by 40%
- **Nao Robot Object Color Detection – CRAIB Lab Sukkur IBA University** January 2023 – June 2023
Tools: Python, OpenCV 
 - Built a real-time color detection system using OpenCV for object classification based on HSV color space
 - Designed a GUI for capturing, displaying, and classifying detected color regions
 - Applied the system to a warehouse simulation for automated color-based object sorting
 - Improved detection accuracy by optimizing segmentation and noise reduction parameters
- **Instagram Sentiment Analyzer Using LLaMA – NLP-Based Insights Platform** July 2023 – June 2023
Tools: Python, LLaMA, Streamlit, Instagram Graph API 
 - Developed a sentiment analysis web app using Meta's LLaMA model to analyze Instagram captions and comments
 - Implemented data collection via the Instagram Graph API for multilingual content analysis
 - Created an interactive Streamlit dashboard to visualize sentiment trends and engagement insights
 - Delivered real-time analytics for content performance optimization and user behavior insights

SKILLS

- **Programming Languages:** Python, JavaScript, Dart, C++, Java, SQL
- **Frontend Development:** HTML5, CSS3, React.js, Bootstrap, Tailwind CSS, Flutter, FCM
- **Backend Development:** Flask, Node.js (Basic), REST APIs, Express
- **Frameworks & Libraries:** Firebase (Auth, Firestore, Storage), Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, OpenCV
- **Databases:** MySQL, SQLite, MongoDB
- **Artificial Intelligence & Machine Learning:** NLP, Computer Vision, LLaMA, GPT-4.5 API
- **Robotics:** ROS, NAO Robot
- **Tools & Platforms:** Git, GitHub, VS Code, Google Colab, Jupyter Notebook, Postman, Linux
- **Professional & Research Skills:** Agile Methodology, Team Leadership, Technical Documentation, Startup Operations

CERTIFICATIONS

- **Java Essentials Bootcamp** [View Certificate](#) June 2023
- **JavaScript Essentials Bootcamp** [View Certificate](#) July 2023
- **HTML Essentials Bootcamp** [View Certificate](#) August 2023
- **SQL Essentials Bootcamp** [View Certificate](#) September 2023
- **React Development Certificate** [View Certificate](#) November 2023
- **MongoDB Full Developer Certification** [View Certificate](#) January 2024
- **Portfolio Website Design Workshop** [View Certificate](#) February 2024
- **Python 101: From Syntax to Superpower** [View Certificate](#) March 2024
- **Resume Website Workshop** [View Certificate](#) April 2024
- **Introduction to Web 3.0 & Career Paths** [View Certificate](#) May 2024
- **Introduction to Open Source** [View Certificate](#) June 2024
- **Technology Job Simulation** [View Certificate](#) July 2025
- **Basics of React** [View Certificate](#) September 2025

ADDITIONAL INFORMATION

Languages: English, Urdu, Sindhi

Interests: Web Development, AI Machine Learning, Open Source Contribution, Reading Tech Articles

REFERENCES

1. **Prof. Dr. Ghulam Mujtaba Shaikh**
 Head of Department, Computer Science
 Sukkur IBA University, Sukkur, Pakistan
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2. **Mr. Faisal Rehman**
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