

PAWAN KUMAR

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[LinkedIn](#) ♦ [GitHub](#) ♦ [Portfolio](#)

PROFILE SUMMARY

Innovative and results-driven Full Stack Developer and Data Scientist with 1.5+ years of professional experience. Expertise in full-stack development (React, Node.js, Express Js, MongoDB), machine learning, and AI-driven solutions. Proven ability to deliver high-impact web applications and optimize system performance. Award-winning programmer with strong problem-solving skills and passion for technical innovation.

EDUCATION

Bachelor of Science in Computer Science

Oct 2021 – June 2025

Sukkur IBA University — Sukkur, Pakistan

- **CGPA: 3.22/4.0** — **Meritorious Scholarship 2021** (Top 5 in university-wide entry test)

- **Relevant Coursework:** Data Science, Deep Learning, Algorithms, Database Systems, Parallel Computing

- **Final Year Project:** *HaariBot* – Autonomous Agriculture Robot (AI Robotics + IoT integration for sustainable farming)

TECHNICAL SKILLS

Programming Languages	Python, Java, C++, SQL, JavaScript, TypeScript
Web Development	React, Node.js, Express, HTML/CSS, REST APIs
Data Science	TensorFlow, Keras, Pandas, Scikit-learn, OpenCV, CNNs
Databases	MySQL, MongoDB, Firebase
Tools	Git, Docker, Jupyter, Linux, AWS (EC2, S3), Azure
DevOps	CI/CD, Performance Optimization, API Integration

PROJECTS

HaariBot: Autonomous Agriculture Robot

Aug 2024 – May 2025

- Integrated computer vision (OpenCV) and DL models for crop monitoring; aim to reduce labor costs by 30%.

- **Tools:** Python, PyTorch, Jetson Nano, IoT sensors — [Link](#)

Emotion Detection System

2024

- Built a custom CNN model (95% accuracy) for real-time facial emotion recognition.

- **Tools:** Python, Keras, OpenCV — [GitHub](#)

Pneumonia Detection via X-ray Analysis

2024

- Designed a ResNet-50 model (94% accuracy) for diagnosing pneumonia; collaborated with Sukkur IBA Hospital.

- **Tools:** TensorFlow, DICOM — [GitHub](#)

Fruit-Vegetable Classification

2023

- Trained a CNN model (92% accuracy) for automated sorting in agriculture/retail sectors.

- **Tools:** Jupyter, Plotly — [Link](#)

AI Agent: Tic Tac Toe GameBot

2022

- Implemented MIN-MAX algorithm with Alpha-Beta Pruning, demonstrating expertise in algorithms and optimization.

- Optimized bot response time to under 0.5 seconds using efficient coding practices.

- **Tools:** Python, PyCharm — [GitHub](#)

EXPERIENCE

- Full Stack Developer

Dec 2023 – Present

Sami Siddiq Real Estate LLC (siddiqproperties.com) — Remote

- Developed and deployed company’s flagship property portal **siddiqproperties.com** using MERN stack
 - Implemented responsive UI with **React**, optimized API latency by 40% through caching strategies
 - Designed **Node.js** backend with **MongoDB** database handling 10k+ property listings
 - Integrated AI-driven solutions for property recommendations and search optimization
 - Added user authentication, real-time dashboards, and admin management features
 - *Experience Letter:* [View Certificate](#)
- Campus Ambassador

Dec 2023 – Present

DevTown — Tech Learning Community

- Led Python/ML workshops for 200+ students; organized AI-focused hackathons
 - Promoted tech literacy through seminars on data science applications

ACHIEVEMENTS

- **1st Position, Speed Programming Competition** — SIBAFEST’25 (Senior Category) — Sukkur IBA University — [Link](#)
- **Finalist, SibaFest Coding Competition** — 2024 (Top 3% of 200+ participants)
- **Meritorious Scholarship 2021** — Top 5 in university-wide entrance exam

LEADERSHIP

- Led cross-functional team for *HaariBot* project; coordinated hardware/software integration.

CERTIFICATIONS

- **Python for Data Science** (*IBM, Coursera*) — [Certificate](#) 2025
- **Machine Learning Specialization** (*DeepLearning.AI*) — [Certificate](#) 2024
- **Deep Learning Specialization** (*DeepLearning.AI*) — [Certificate](#) 2025
- **IBM Data Science Specialization** (*IBM, Coursera*) — [Certificate](#) 2025
- **Introduction to MongoDB** (*MongoDB University*) — [Certificate](#) 2024
- **Databases and SQL for Data Science with Python** (*IBM, Coursera*) — [Certificate](#) 2025
- **Database Management Essentials (with Honors)** (*University of Colorado*) — [Certificate](#) 2023
- **Front-End Development Specialization** (*IBM, Coursera*) — [Certificate](#) 2025
- **C++ Programming Specialization** (*Coursera*) — [Certificate](#) 2022
- **Core Java Specialization** (*LearnQuest, Coursera*) — [Certificate](#) 2022
- **Spring - Ecosystem and Core** (*LearnQuest, Coursera*) — [Certificate](#) 2025