PAWAN KUMAR

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LinkedIn ◇ GitHub ◇ Portfolio

PROFILE SUMMARY

Innovative and results-driven Data Scientist with expertise in machine learning, deep learning, and AI-powered automation. Proficient in Python, TensorFlow, and cloud technologies, with experience in developing scalable data-driven solutions and AI models for healthcare, agriculture, and business analytics. Skilled in full-stack development, integrating AI with web applications, and deploying models for real-time inference. Passionate about leveraging data science to solve complex problems, drive decision-making, and lead digital transformation initiatives.

EDUCATION

Bachelor of Science in Computer Science   Oct 2021 – Present
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
Data Science Tools	TensorFlow, Keras, Pandas, Scikit-learn, OpenCV, CNNs
Web Development	React, Node.js, MongoDB, HTML/CSS
Tools	Jupyter, Git, Docker, MATLAB, Linux
Certifications	Machine Learning Specialization (Coursera),Deep Learning Specialization (Coursera)

PROJECTS

HaariBot: Autonomous Agriculture Robot   Aug 2024 – Present
- Integrated computer vision (OpenCV) and ML models for crop monitoring; aim to reduce labor costs by 30%.
- **Tools:** Python, TensorFlow, Jetson Nano, IoT sensors

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   Nov – Dec 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 for unbeatable strategic decision-making.
- Designed interactive GUI and optimized bot response time to under 0.5 seconds per move.
- **Tools:** Python, PyCharm — GitHub

EXPERIENCE

Full Stack Developer   2024 – Present
Investibayt.com — Remote
- Built company website using React, Node.js, and MongoDB; optimized API latency by 40%.
- Implemented user authentication and real-time data dashboards.

Campus Ambassador   2023 – 2024
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

- **SibaFest Coding Competition 2024 Finalist** — Ranked among top 3% of 200+ participants.
- **Certifications with Honors** — Coursera, IBM

LEADERSHIP

- Led a group for *HaariBot* project; coordinated hardware/software integration.

CERTIFICATIONS

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