

# Engr. Veena Kumari

Seeking opportunities to leverage technical & creative proficiency in contributing to impactful growth.

## BASIC INFORMATION

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<b>GitHub</b>	<a href="https://github.com/VeenaKumari68/">https://github.com/VeenaKumari68/</a>
<b>ResearchGate</b>	<a href="https://www.researchgate.net/profile/Veena-Kumari-12/">https://www.researchgate.net/profile/Veena-Kumari-12/</a>

## WORK EXPERIENCE

### Lecturer

Department of Software Engineering  
NED University of Engineering & Technology, Karachi, Pakistan  
Onsite

March 2026 - Present

- Teaching specialized courses in Artificial Intelligence & Expert Systems, and Programming Languages focusing on core concepts, practical implementations, and industry relevance.
- Designed and compiled the Final Year Design Project (FYDP) Booklet 2022, Developed the Graduate Directory, organizing comprehensive student information.

### Lecturer

BS Artificial Intelligence (Department of Software Engineering)  
Mehran University of Engineering & Technology, Jamshoro, Pakistan  
Onsite

Aug 2025 - March 2026

- Deliver undergraduate lectures in Fundamental Programming, Software Engineering, Artificial Intelligence, and Machine Learning.
- Develop course syllabi, learning materials, tutorials, and lab manuals to support student learning.
- Design and updated course curriculum to reflect cutting-edge research and industry trends in AI.
- Perform research in AI-related fields, published papers in peer-reviewed journals, and presented findings at academic conferences.

### Junior Front-end Engineer

Martmox Pty Ltd, Queensland, Australia  
Remote

July 2022 - July 2025

- Develop fully responsive, cross-browser compatible, websites leveraging HTML5 and CSS3, ensuring accessibility and optimal user experience across all platforms.
- Design and implement modular, maintainable front-end architecture using object-oriented JavaScript frameworks to support scalable and high-performance applications.
- Develop dynamic, interactive web interfaces with robust cross-

browser functionality through advanced JavaScript and jQuery techniques.

- Oversee seamless backend integration, optimize codebase efficiency, and introduce feature enhancements to drive performance, user engagement, and operational excellence.

### Web Development Intern

Let's Grow More, New Delhi, India

Dec 2021 – Jan 2022

Remote

- Developed a dynamic & responsive website, ensuring compatibility across various devices & browsers.
- Designed & developed a React-based web application for listing items, enhancing user interactivity & responsiveness.
- Worked as an individual to deliver a fully functional & user-friendly application.

### Web Development Intern

Ghani Business Solutions, Hyderabad, Pakistan

Jan 2021 – Mar 2021

Hybrid

- Developed web pages and components using HTML5, CSS3, & JavaScript.
- Worked alongside backend to troubleshoot JavaScript-related issues with front-end connectivity.
- Conceptualized, designed, & developed a comprehensive E-Library system.
- Successfully integrated backend systems to enable efficient data management & retrieval.

## EDUCATION

### Master of Engineering (Software Engineering)

Mehran University of Engineering and Technology, Jamshoro, Pakistan  
3.75/4.00 CGPA

Feb 2023 – July 2025

### Bachelor of Engineering (Software Engineering)

Mehran University of Engineering and Technology, Jamshoro, Pakistan  
3.58/4.00 CGPA

Oct 2017 – Nov 2021

### Intermediate (Pre-Engineering)

Board of Intermediate and Secondary Education, Hyderabad, Pakistan  
78.16 % (Grade A)

Aug 2015 – May 2017

### Matriculation (Science)

Board of Intermediate and Secondary Education, Hyderabad, Pakistan  
85.17 % (Grade A1)

Aug 2013 – Apr 2015

## PROJECTS

**Tweet Emotion Recognition with TensorFlow** (<https://github.com/VeenaKumari68/Tweet-Emotion-Recognition-with-TensorFlow>)

- Developed a deep learning model using TensorFlow to classify tweets into multiple emotion categories (e.g., joy, anger, sadness, etc.).
- Implemented and fine-tuned LSTM/GRU/CNN architectures for sequence modeling, achieving 92% accuracy/F1-score on the test dataset.

- Applied natural language processing (NLP) techniques for text preprocessing and feature extraction.

### **Image Color Detection Tool** (<https://github.com/VeenaKumari68/Image-Color-Detection>)

- Built an interactive tool for detecting and labeling dominant colors in images based on RGB values.
- Utilized Python and OpenCV to process image data, analyze patterns, and identify human-readable color names.
- Enhanced usability and functionality through refined algorithms and optimized code.

### **Improving Mobile Battery Time and Processing Capabilities Using Cloud Computing**

(<https://github.com/VeenaKumari68/Battery-Optimizer>)

- Developed an Android application “Battery Optimizer” as a final-year project to optimize mobile phone processing by detecting battery drainage & filtering data.
- Used Cloud Computing techniques like the data offloading method for monitoring & managing battery usage effectively.

### **Library House** (<https://github.com/VeenaKumari68/Library-House>)

- Developed a full-stack e-book portal, key features include book categorization, downloadable PDFs, an e-commerce section for book purchases, user authentication, & access control for authorized administrators.
- Managed backend operations with an interactive admin panel, performing CRUD operations on the database.

### **Distributors Hub** (<https://github.com/VeenaKumari68/Distributers-Hub>)

- Developed a comprehensive platform for local distributors, featuring both web & mobile applications.
- Key functionalities include inventory management, which triggers the robust distributor management system, ensuring efficient tracking & distribution of goods, seamless cross-platform functionality, and ensuring efficient & responsive user experiences.

### **Personal Portfolio** (<https://github.com/VeenaKumari68/Personal-Portfolio>)

- Created a responsive portfolio website that showcases projects, skills, and contact information in a visually appealing and accessible manner.
- Design incorporates media queries for responsiveness, ensuring optimal viewing across various devices, and enhancing user interactivity.

## SKILLS

- Data Mining – Python · Data Scraping · OpenCV · Pandas
- Machine Learning – Python · Scikit-Learn · TensorFlow
- Web Development – Frontend · Backend
- Microsoft Office – Word · Excel · PowerPoint · Access · Power BI
- Jupyter Notebook
- Data Analytics
- Critical Thinking
- Code Optimization

## COURSES & CERTIFICATIONS

- Web of Data ([Certificate](#))

- Introduction to Generative AI ([Certificate](#))
- Full-Stack Web Development with React ([Certificate](#))
- Interactivity with JavaScript ([Certificate](#))
- Introduction to CSS3 ([Certificate](#))
- Introduction to HTML5 ([Certificate](#))

## RESEARCH PUBLICATIONS

- [1] **V. Kumari**, A. F. Meghji, S. Bhatti, and D. Agha, "Analyzing Temporal Variations and Public Sentiment on X: A Clustering Analysis of the 2024 Pakistan Elections", JICTRA, vol. 15, no. 1, pp. 1-16, Dec. 2025.
- [2] A. Muzaffar, Aiman Manahil, Amirita Dewani, M. Sami, **V. Kumari**, and D. Agha, "An Augmented Reality Application for eLearning: Design of Stellar Escape Prototype for Immersive Space Exploration," Sukkur IBA Journal of Emerging Technologies, vol. 8, no. 1, pp. 79-98, Sep. 2025.
- [3] **V. Kumari**, A. F. Meghji, F. B. Shaikh, R. Qadir, and U. Oad, "A Review of Classification Approaches in Educational Data Mining for Predicting Student Performance", VAWKUM trans. comput. sci., vol. 12, no. 2, pp. 65-80, Nov. 2024.
- [4] **V. Kumari**, A. F. Meghji, R. Qadir, U. Gianchand, and F. B. Shaikh, "Predicting Student Performance Using Educational Data Mining: A Review", KJCIS, vol. 7, no. 1, pp. 43-58, Oct. 2024.
- [5] D. Agha, **V. Kumari**, and A. F. Meghji, "Enhancing Mobile Efficiency: A Cloud-Powered Paradigm for Extended Battery Life and Enhanced Processing Capabilities", IJIST, vol. 6, no. 1, pp. 58-69, Feb. 2024.
- [6] R. Qadir, A. F. Meghji, U. Oad, and **V. Kumari**, "Exploring Learning Patterns: A Review of Clustering in Data-Driven Pedagogy", IJIST, vol. 5, no. 4, pp. 831-846, Dec. 2023.

## REFERENCES

**Dr. Naeem Ahmed Mahoto**  
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