

# ARWA ABBAS

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**GitHub** | **Linkedin** | **Portfolio**

## EDUCATION

### Fast University, NUCES

Karachi, Sindh

CGPA: 3.67 | Bachelor of Computer Science | Relevant Coursework: Recommender Systems, Deep Learning & Perception, Artificial Intelligence, Data Structures, Database Systems, Design & Analysis of Algorithms, Probability & Statistics, Linear Algebra

August 2023 - July 2027

## EXPERIENCE

### Vconn Private Limited | MIS Intern (Programmar)

Karachi, Sindh | July 2025 - October 2025

- Cleaned and analyzed a large resume dataset using Python, improving data quality for a resume-scanner project. Additionally, applied NLP + FastAPI based ML models to automate resume analysis.
- Contributed to full-stack development projects using the MERN stack (MongoDB, Express.js, React, Node.js) and .NET (C#) with Vue.js frameworks.
- Designed and implemented UI/UX components that enhanced user efficiency by 20%.
- Built and integrated 10+ RESTful APIs and worked with SQL Server databases.

## SKILLS

Programming Languages: Python, C#, C++, JavaScript, SQL, TypeScript

Libraries/Frameworks: Node.js, Express.js, React, Vite, Tailwind CSS, Bootstrap, FastAPI, Flask, .NET, NumPy, Matplotlib, Pandas, Scikit-learn, Seaborn, RESTful APIs, NLTK, spaCy, Plotly, NextJs

Tools / Platforms: Git, GitHub, Jupyter Notebook, VS Code, Vercel, Streamlit

Databases: MongoDB, SQL Server, PostgreSQL, Supabase

## PROJECTS / OPEN-SOURCE

### NexoOps - AI-Intelligent Network Management System | Link

Python, React, Flask, Numpy,

Matplotlib, Scikit-learn, Joblib, NLTK, spaCy

- Built an intelligent network monitoring platform processing 100 + raw logs, automatically summarizing events with NLP and classifying alerts using ML algorithms (Random Forest, SVC, Linear Regression), selecting Random Forest as best, saving 2030 hours/week of manual review.
- Developed a ChatOps diagnostic assistant with 50+ real-time network commands, integrated with Flask REST API, enabling actionable insights to improve network response efficiency.

### Customer Segmentation Dashboard | Link

Python, Pandas, NumPy, Matplotlib, Plotly, Scikit-learn,

CSS, Streamlit

- Solved manual customer grouping by analyzing 200+ records with K-Means clustering, enabling dynamic filtering for actionable marketing insights.
- Visualized 5+ customer segments via scatter, 3D, radar, and heatmaps, improving understanding of customer behavior, trends and targeting.

### Pharmora Full Stack Pharmacy Web Application | Link

PERN Stack (PostgreSQL (Supbase), Node.js,

React + Vite, Express.js), HTML, Tailwind CSS, Bootstrap, JavaScript, REST APIs

- Built a full-stack e-commerce platform with role-based dashboards and secure authentication.
- Integrated REST APIs with Supabase to manage 100+ medicines, enabling real-time updates and automated orders.

## CERTIFICATIONS

- IBM Data Science Professional Certificate - IBM, Coursera | Link
- Machine Learning Specialization - Stanford University, Coursera | Link
- Google AI Essentials - Google, Coursera | Link

## HONORS & AWARDS

- Dean's List Fall 2023, Spring 2024, Fall 2024, Fall 2025