ARWA ABBAS

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github | linkedin

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 10,000+ 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, Spring 2025