

# MUHAMMAD SHAHEER JAMAL

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## WORK EXPERIENCE

### AI Intern @ Arcana Info Pvt Ltd

August 2024 - October 24

- Developed a predictive machine learning model for chronic kidney disease detection using IBM watsonx.ai, implementing data science techniques to forecast patient health risks
- Created comprehensive business intelligence dashboard with IBM Cognos Analytics, transforming raw data into clear, actionable visualizations.

## PROJECTS

### MCP Research Bot

- Built an AI-powered research assistant integrating Google Gemini with multiple Model Context Protocol (MCP) servers for arXiv paper search, web content fetching, and filesystem operations.
- Skills:** Python, Gemini API, Model Context Protocol (MCP), FastMCP, arXiv API, AI Integration, Natural Language Processing

### NutriScan

- Developed a full-stack computer vision application that identifies food from images and delivers comprehensive nutritional breakdowns to users. Engineered with a custom image classification model deployed on Azure ML, MongoDB for data storage, and Streamlit for UI rendering.
- Skills:** Computer Vision, Azure ML, MongoDB, Streamlit, PyTorch, WebScraping

### Budget Buddy

- Engineered an intelligent chatbot utilizing Retrieval Augmented Generation (RAG) architecture to provide accurate, contextual responses on Pakistan's 2024 annual budget.
- Skills:** Python, RAG, LLM, NLP, Document Embedding, PyTorch

## EDUCATION

### Bachelor of Science in Artificial Intelligence

2022 - 2026

Dawood University of Engineering and Technology

- Skills:** C Language, Python, OOP, Assembly Language, DSA, AI, SQL, R Language
- GPA:** 3.59/4

## SKILLS

- Machine Learning :** Python, Scikit-learn, PyTorch, Computer Vision
- Data Analysis :** Pandas, Numpy, EDA, Feature Engineering
- Model Deployment :** FastAPI, Microsoft Azure
- Tools :** Git, Jupyter Notebook
- Mathematics :** Linear Algebra, Probability, Statistics

## CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals (AI-900)**
- Machine Learning Specialization from **DeepLearning.ai** and **Stanford Online**
- Neural Networks and Deep Learning from **DeepLearning.ai** and **Stanford Online**

## EXTRA CURRICULAR ACTIVITES

- Microsoft Learn Student Ambassador :** Conducted workshops on Azure with Machine Learning and Computer Vision, both online and in-person.
- Co-Founded DevBiradri Community :** A community where developers come together to learn, collaborate, and innovate.
- Technical Lead @ IEEE Computer Society :** Provided technical assistance during events, helped organize workshops, and contributed to the technical development of society activities and members.