

Iqra Channar

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ABOUT ME

I am a passionate Electrical Engineer with a keen interest in innovating solutions using Machine Learning and AI. My curiosity extends to exploring the realms of Deep Learning, image processing, and embedded systems, where I constantly seek to push the boundaries of technology and create impactful solutions.

EXPERIENCE

Volmatica

October 2024- present

Data Engineer Intern

- Acquired hands-on experience with SQL, PySpark, and Microsoft Azure services.
- Gained proficiency in using Databricks, Data Lake, and Delta Lake for managing and analyzing large-scale datasets.
- Leveraged Power BI to design interactive dashboards for visualizing project results and insights.
- Successfully implemented the Project, demonstrating skills in data pipeline creation, data transformation, and real-time analytics.

CodeXValley

Jun 2024 – August 2024

AI/ML Intern

- Engaged in a SaaS project that utilized RAG, Vector Embeddings and ML that provided AI assistance tailored to business needs.
- Utilized modern ML algorithms like KNN, Naive Bayes etc to acquire solutions to different problems
- Created Automation solutions using python. Implemented libraries like Selenium, BeautifulSoup etc to automate tasks.

EDUCATION

National University of Sciences and Technology

June 2024

B.E. Electrical Engineering (Majoried in Computer Engineering)

Relevant Coursework: OOP, DSA, Computer Vision, Machine Learning, Digital Image Processing, Embedded Systems, DLD, Digital communication system, SNS, DSP

SKILLS

Skills and Programming Languages: C/C++, Python, Sql, pySpark, Azure, Databricks, Datalake, Deltalake, PowerBI, HTML/CSS, \LaTeX , MIPS, Bootstrap, MySQL, Verilog, System Verilog, Proteus, MATLAB, Simulink, Photoshop and Illustrator

Tools: Visual Studio Code, Visual Studio, Google Collab, Pycharm, MATLAB, LabVIEW, MS Visio, Mars, Multisim, AutoCAD, Xilinx, MS Office

PROJECTS

Hydroponic Automated system for Indoor Agriculture | *Node-Red, Thonny, TensorFlow, EfficientNetV2B0 model*

- * Created a smart hydroponic system with Arduino and Raspberry Pi to support indoor lettuce cultivation.
- * Integrated various sensors with Arduino for ongoing monitoring of vital environmental factors.
- * Established a web interface for immediate access to real-time data on growing conditions.
- * Employed Raspberry Pi for advanced nutrient deficiency detection in lettuce plants, enhancing proactive plant care strategies.

EXTRA-CURRICULAR ACTIVITIES

Director (Sports And Adventure Society): Designed and managed all graphic materials,for the society's promotions and communications. Lead a team of volunteers and deputy directors in planning and executing graphic design projects for various events.

Director (Literature Club): Designed the annual college magazine, overseeing all aspects of graphic design.

Volunteer : Volunteered in managing an International Conference on Robotics and Automation in Industry