

Muhammad Usama Saleem

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EDUCATION

FFC Grammar Higher Secondary School
GCE O Level and GCE A level

2004 - 2019

- Grades: 3A*, 3A, 2B in O Level and 1A*, 2B in A Level (Physics, Mathematics, Computer Science)
- Activities and societies: Best Athlete 2015-2019, Best Badminton Player 2016-2019, Director FGS Sportsfest

National University of Computer and Emerging Sciences (Islamabad Campus)
Bachelors in Artificial Intelligence

2019 - 2023

- Dean's Honor List Academic Achievement Award recipient 2019-2020
- Teacher's Assistant for Object Oriented Programming CS217 (C, C++, Python)
- Class representative across straight 4 regular semesters
- Projects: Image segmentation with machine learning, Speech emotion recognition, ANN model for evaluating project performance based on relativity factors, Ring DHT system using C++

PROFESSIONAL EXPERIENCE

SKELIA
AI Programmer

Nov 2021 – Feb 2022
New Zealand

- Optimizing development of complex machine learning models using ANN to maximize predictive branding
- Maintaining to develop complex analytical algorithms to produce visual representation of decentralized data
- Working on text-speech analysis to contrast patterns
- Identified and implemented cost-saving initiatives of \$80K through ANN optimizing US/AUS stock market changes and 30+ projects

FAUJI FERTILIZER COMPANY LIMITED
Information Technology Intern

Aug 2021 – Sep 2021
Sadiqabad, Pakistan

- Researched on how SAP ERP system executes the business logic, client transactions and running jobs
- Developed a 3-tier automated system using client server architecture to fully automate the responses from an active super system for the company users
- Computed Python's machine learning techniques on company's decentralized data stream to develop risk analysis models on valve leakages, pipe bursts and electric shutdown
- Studied the application of project management system in the corporate sector and devised a plan to control economic failure of shares, reducing the risk by 3%

- Researched and developed machine learning models for security problems in the areas of Networking, Application and Data
- Designed and shipped 7 ML models using Keras, Scikit-Learn and TF with accuracies above 86%
- Built predictive models with decision trees to track users preemptively, up to two URLs ahead
- Improved and maintained common tools and infrastructure, freeing up 10 labor hours per week
- Interpreted 70+ complex simulation datasets using statistical methods
- Developed dimensional data modelling to satisfy OLAP needs

SKILLS AND TECHNOLOGIES

Programming Languages: Python, C++, C, R, Java, SQL, HTML, CSS, Kotlin

Packages: Scikit-learn, NumPy, SciPy, NLTK, Matplotlib, TensorFlow, Jupyter Notebook

Tools & Frameworks: React, Node.js & Express, Flutter, Django, CherryPy, Visual Basic, .Net, Spark

Technical Skills: Machine Learning, Deep Learning, Data Visualization, Quantitative Analysis, Web Development, DevOps, Leadership, Result Oriented, Project Management, Predictive Modeling, Decision Analytics

Languages: English (Proficient), Spanish (Basic), Urdu (Native)

PROJECTS

- Created social media sentiment analyzer that tracks 50K posts per day from Twitter, Reddit.
- A Flexible Content Adaptation System Using a Rule-Based Approach
- Cloud based application using integrated AWS.
- Distributed file system storage using cluster management and Hadoop.
- Urdu poetry generation + Urdu ASR model, fine tuning and story analysis
- Vehicle security registration system using facial recognition
- VGG-16 architecture implementation
- Point Net Architecture Implementation

INTERESTS

Software Development, Natural Language Processing, Deep Convolutional Neural Networks, Machine Learning Algos