Muhammad Usama Saleem

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SUMMARY

Passionate machine learning engineer with 3+ years' experience with data mining, web crawling and predictive modeling. Agile and result oriented. Hoping to focus more on deep learning and data science in future career

EDUCATION

FFC Grammar Higher Secondary School   **2004 - 2019**
GCE O Level and GCE A level

- Grade: Grade: 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)   **2019 - 2023**
Bachelors in Artificial Intelligence

- 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   **Nov 2021 – Feb 2022**
AI Programmer   **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   **Aug 2021 – Sep 2021**
Information Technology Intern   **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%

SKELIA   **Jun 2021 – Aug 2021**
Machine Learning Intern   **New Zealand**

- 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

REDOT GLOBAL   **Jun 2020 – Jul 2020**
Junior Web Developer   **Sri-Lanka**

- Junior web developer responsible for end-to-end web app development and creative cloud engineering. Led one team of three employees
- Drove best practice implementation for 11 employees across multiple departments. Decreased rework by 23% and costs by 15%.
- Consistently received high user experience scores for all web development projects, including a 12% traffic increase for Redot Global
- Developed collateral such as display, marketing and packaging materials to support product branding strategies
- Got Recognition for one of my sites for Best Navigation and Structure
- Diagnosed and troubleshoot different websites of the company's critical clients by developing updated knowledge of the modern frameworks like Django, Vue.js, Angular and Flask

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
- Vehicle security registration system using facial recognition
- VGG-16 architecture implementation   See more at Portfolio

INTERESTS

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