Muhammad Bilal Ur Rehman

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Profile

Results-driven MSc Artificial Intelligence student with hands-on experience in NLP, machine learning, and cloud computing. Proven ability to build and deploy practical AI solutions, including an NLP-based resume parser and an intelligent recruitment platform for a UK-based company. Seeking a challenging software development, data science, or cloud engineering role to apply and expand my technical skills.

Technical Skills

Languages:
Python, SQL, Java, C++, Bash, HTML/CSS

AI/ML/Data:
Pandas, NumPy, Scikit-learn, SpaCy, VADER, Regex, NLP, Machine Learning

Frameworks & Tools:
Flask, Git, GitHub, Jupyter Notebook, Android Studio, Tkinter

Cloud & DevOps:
AWS (EC2, VPC, S3, IAM), Private Cloud Networking, REST APIs

Relevant Experience & Key Projects

AI Recruitment Platform (Industry Project)

Xecuters Ltd, Manchester, UK

- Engineered an intelligent hiring system to automate and improve the company's candidate screening process.
- Built and integrated an NLP-powered tool (using Python and SpaCy) to parse CVs and algorithmically match applicant profiles against job descriptions.
- Delivered project insights and a job-fit algorithm that significantly streamlined internal screening, presenting the solution directly to the company team.

Customer Sentiment & Product Feature Analysis

JC Penney Dataset

- Engineered a data analysis pipeline using Pandas to ingest, clean, and merge 5 disparate datasets (CSV & JSON) into a unified, analysis-ready DataFrame.
- Applied NLP (VADER) to conduct sentiment analysis on thousands of unstructured customer reviews, quantifying user opinions into polarity scores.
- Correlated sentiment data with product features (e.g., price, category) and user data (location) to identify key drivers of customer dissatisfaction.
- Developed Seaborn visualizations to present actionable business insights, revealing the impact of product features and user location on customer satisfaction.

Secure AWS Cloud Network (Infrastructure Project)

- Designed and deployed a secure, multi-tier private cloud environment on AWS using VPC, public/private subnets, and virtual firewalls.
- Configured EC2 instances, routing tables, and IAM policies for secure data hosting, internal communication, and restricted SSH access.

Resume Parsing Tool (Python/NLP Project)

- Developed a standalone Python application using SpaCy and Regex to extract and structure key information (skills, education, experience) from unstructured resume text.
- Built a Flask API endpoint to serve the parsed JSON data, making it ready for automated recruitment systems.

Additional Projects

Library & Billing Management System

A full-featured desktop application (Python & Tkinter) for managing user records, book checkouts, and billing.

MB Motors - Business Website

A responsive, multi-page website (HTML, CSS, JS) featuring a product gallery and booking form.

Android Music Player

A native mobile application (Java & Android Studio) to play MP3 files and manage playlists.

Education

MSc Artificial Intelligence

University of Stirling, UK ∂ (Sep 2025 – Present)

Bachelor's Degree in Information Technology

University of Sargodha, Pakistan ∂ (2021 – 2025)