

Muhammad Bilal Ur Rehman

AI & Cloud Engineer

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Profile

AI & Cloud Engineer (MSc AI) with proven experience in designing, building, and **deploying** end-to-end, full-stack AI applications. Skilled in Python, Flask, Generative AI (Gemini), and AWS. Seeking a challenging role to apply my skills in MLOps, data science, and cloud-native solutions.

Key AI & Cloud Projects

- Nov 2025 **InterviewCopilot AI (Live on AWS)**, CV-Aware AI Interview Coach
- Developed a full-stack, stateful (session-based) web app using Flask and Google Gemini AI.
 - The AI acts as a recruiter, analyzing an uploaded CV (PDF/DOCX) and the desired role to conduct a realistic, tailored interview.
 - Deployed live on AWS EC2 (Port 8000) using Gunicorn, running on the same server as another project.
 - **Live Demo:** <http://54.87.17.110:8000>
 - **GitHub:** github.com/mbilalrehman/InterviewCopilot-AI
- Nov 2025 **NexHire AI (Live on AWS)**, Full-Stack Generative AI Resume Parser
- Developed a full-stack web app (Python, Flask, Gunicorn) using the Google Gemini API to parse CVs (PDF/DOCX) into structured JSON.
 - Deployed the application live on an AWS EC2 instance (t3.micro), configuring VPC security groups and managing the production environment.
 - **Live Demo:** <http://54.87.17.110:5000>
 - **GitHub:** github.com/mbilalrehman/AI-Resume-Parser-Gemini
- Nov 2025 **SentimentSense AI Dashboard**, End-to-End Data Science Application
- Built a data analysis dashboard (Flask, Pandas) that ingests a CSV of 39,000+ reviews, performs sentiment analysis using VADER (NLP), and counts keywords.
 - Visualized insights (Pie/Bar charts) on the frontend using Chart.js and JavaScript.
 - **GitHub:** github.com/mbilalrehman/SentimentSense-AI-Dashboard

Relevant Experience

- 2025 **AI Recruitment Platform (Industry Project)**, Xecuters Ltd, Manchester, UK
- Engineered an intelligent hiring system to automate candidate screening.
 - Built an NLP tool (SpaCy) to parse CVs and algorithmically match profiles against job descriptions.

- 2024 **Secure AWS Cloud Network (Infrastructure Project), Personal Project**
- Designed and deployed a secure, multi-tier private cloud environment on AWS using VPC, subnets, and virtual firewalls.
 - Configured EC2 instances, routing tables, and IAM policies for secure data hosting.

Technical Skills

- AI, ML & Data Python, Gemini API, Pandas, NLP, VADER, SpaCy, Scikit-learn, Regex
- Backend & Cloud/De-vOps Flask, AWS (EC2, VPC, S3, IAM), Gunicorn, REST APIs, MySQL, Git/GitHub
- Frontend & Other HTML, CSS, Tailwind CSS, JavaScript, Chart.js, Java, C++

Education

- 2025–Present **MSc Artificial Intelligence**, *University of Stirling*, Stirling, UK
- 2021–2025 **Bachelor's Degree in Information Technology**, *University of Sargodha*, Pakistan