Umer Hakim

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Profile

A goal-oriented Computer Science graduate with a strong foundation in software development and a research focus on applying machine learning to healthcare. Demonstrated ability to deliver high-impact projects, evidenced by an award-winning skin cancer prediction system achieving 96% accuracy. Seeking to contribute to and grow within a challenging Master's programme in Data Science or Artificial Intelligence.

Education

Bachelor of Science in Computer Science | CGPA: 3.20/4.00
University of Agriculture, Peshawar | Sep 2020 – Sep 2024

- Medium of Instruction: English

Research Project

Skin Cancer Prediction using Advanced Machine Learning | Awarded *Best FYP of the Year*

- Achieved a state-of-the-art **96% accuracy** using the **XGBoost** algorithm on the **HAM10000** dataset, significantly outperforming established benchmarks (75-85%).
- Implemented and rigorously compared multiple models, with **Random Forest** also yielding a high accuracy of **92%**.
- Analysed and contextualized results against prior research to validate the superiority of the proposed approach.

Work Experience

Python Django Developer
Codelounge Software House, Lahore | Sep 2024 – Present

- Engineer and maintain robust backend systems for web applications using **Python, Django, and PostgreSQL**.
- Design and integrate **RESTful APIs** to enable seamless data exchange and full-stack functionality.
- Develop front-end components using **HTML, CSS, and JavaScript**.
- Collaborate in an **Agile** team environment to translate project requirements into technical solutions.

Math Tutor (Part-time)
Photomath (Google Project), Remote | 2023 – 2024

Awards & Scholarships

- **Best Final Year Project Award** (2024) – University of Agriculture, Peshawar
- **Prime Minister's Laptop Scheme Award** – Awarded based on high academic merit
- **Ehsans Undergraduate Scholarship** (2020-2024) – Nationwide merit-based scholarship

Certifications

- Google Cybersecurity Certificate (Coursera)
- NAVTTC Cybersecurity Course (6-Month Program)
- Amal Career-Prep Fellowship (3-Month Leadership Program)
- Python for Everybody | API Development with Django REST Framework

Technical Skills

- **Programming Languages:** Python, JavaScript, SQL
- **Frameworks & Libraries:** Django, REST APIs, Scikit-learn, XGBoost, Pandas, NumPy
- **Tools & Platforms:** Git, GitHub, PostgreSQL, Docker, Linux, Jupiter Notebook, VS Code
- **Concepts:** Machine Learning, Data Science, Object-Oriented Programming (OOP), Agile Development

Languages

- **Pashto:** Native
- **Urdu:** Fluent
- **English:** Fluent