Hammad Ahmad

Full Stack Developer & Data Scientist

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Media Town, Block B, Islamabad, Pakistan, 44000

EXPERIENCE

Research Assistant — Jan 2024 – Present

COMSATS University Islamabad — *Islamabad, Pakistan*

- Led comprehensive data science and analytics research to identify key health indicators for diabetes and develop a predictive model with the best accuracy.
- Transformed the predictive model into a web application using React for the front end and Flask for the back end, which predicts if the patient is prone to diabetes. If not, it provides the percentage risk and also highlights the contributing factor to help people stay safe.
- Technologies used: Python, React, Flask, HTML, CSS, JavaScript, Scikit-Learn, Pandas, NumPy, Matplotlib, Joblib.

Data Science Intern — July 2023 – Sep 2023

COMSATS University Islamabad — *Islamabad, Pakistan*

- Utilized data science and data analytics to build a model for sleep efficiency.
- Developed a comprehensive research paper titled "Comparative Analysis of Machine Learning Methods for Enhancing Sleep Efficiency and Prediction".
- Collaborated with senior researchers to enhance the accuracy and performance of the predictive model.
- Technologies used: Python, Scikit-Learn, Pandas, NumPy, Matplotlib.

EDUCATION

COMSATS University — Islamabad, Pakistan

Bachelor of Science in Bioinformatics — *2020 – 2024*

PROJECTS

React-Keeper-App | *React, Node.js, Express.js, MongoDB* — 2023

- Created a clone of Google Keep, demonstrating my expertise in web development.
- Replicates the functionality of Google Keep, allowing users to manage notes effectively.
- Deployed the application accessible at React-Keeper-App.

AI-Based Sleep Efficiency Predictor Tool | *Python, Flask, HTML, Bootstrap* — 2023

- Developed an AI-based modern tool to predict sleep efficiency.
- Integrated with Random Forest Model and converted into a web app using Flask framework.
- Enhanced user experience using HTML and CSS for the front end.
- Project certificate: Certificate Link

PUBLICATIONS

Comparative Analysis of Machine Learning Methods for Enhancing Sleep Efficiency — May 2024

Hammad Ahmad, Umar Khan, Maleeha Azam — *COMSATS University Islamabad*

- Presented at the ICSMAI Conference 2024, Morocco.
- Presented a comprehensive analysis of sleep efficiency by evaluating various influential factors.
- Used machine learning algorithms including Linear Regression, Decision Tree, Random Forest, and Gradient Boosting Regressor.
- Presentation link: YouTube

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, HTML, CSS, SQL
Frameworks & Libraries: JQuery, Node.js, Express.js, React, Bootstrap, Bulma, Scikit-Learn, Pandas, NumPy, Matplotlib, EJS, Sass
Databases: MongoDB, MySQL, PostgreSQL
Technologies & Tools: Git, GitHub, Jupyter Notebook, VS Code, Postman, Linux