Nawazish Ali

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Professional Summary

AI/ML Engineer and Computer Engineer with expertise in machine learning, intelligent systems, and IoT applications. Skilled in Python, Tensor Flow, and Scikit-learn with proven success in delivering measurable results from improved model accuracy to faster automation. Passionate about applying AI to real-world problems.

Education

Bachelor of Computer Engineering — Comsats University Islamabad, Abbottabad Campus
Sept 2020 – Sept 2024 | CGPA: 3.55
F.Sc Pre-Engineering — PIPS Abbottabad Campus
April 2018 – April 2020

Key Projects & Achievements

- Neuro-Assist Mobility System: Achieved 92% accuracy in activity recognition with <150ms latency using ML + embedded systems.
- House Price Prediction — Built regression model (Python, Scikit-learn) with $R^2 = 0.89$, improving accuracy by 23% over baseline.
- POS Desktop Application — Developed C# + MySQL system reducing errors by 40% and checkout time by 30%.
- IoT Home Automation — Automated 6+ devices with sub-200ms latency via Arduino + mobile app.
- Beta Processor (Verilog HDL) — Designed custom processor achieving 100% pass rate in simulation tests.

Technical Skills

- Programming: Python, C, C++, C#, Java, Verilog HDL, MATLAB, MIPS Assembly
- ML & AI: Tensor Flow, Scikit-learn, NumPy, Pandas, Matplotlib, Regression, Classification, Neural Networks, Deep Learning, NLP (beginner)
- Tools: Jupyter Notebook, Google Colab, Spyder, Xilinx, Proteus, Code Composer Studio, Arduino
- Databases: MySQL, SQL Server
- Development: Visual Studio, NetBeans, LaTeX
- Other: Data Preprocessing, Feature Engineering, Hyper parameter Tuning, MS Excel, PowerPoint

Professional Experience

Intern — PESCO 132KV Grid Station, Abbottabad (Jan 2024 – Feb 2024)

- Monitored grid operations and assisted with high-voltage troubleshooting.
- Contributed to improved system reliability through data analysis and engineering collaboration.

Leadership & Activities

• Active member of IEEE and IET university societies; organized technical events, workshops, and competitions.
• Represented Pakistan in the International Juvenile Peace Cup (Football Tournament, Shenyang, China).