Muhammad Tallal Eatazaz

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Education

FAST NUCES Islamabad, PK
Bachelor of Science in Computer Science   Aug. 2021 – June 2025
Relevant Courses: Software for Mobile Devices, Software Design and Analysis, Artificial Intelligence, Database Systems, Natural Language Processing, Applied Machine Learning, Deep Learning.

Experience

Cloud Application Development and Mobility Intern   June 2023 – Aug. 2023
Systems Limited, Islamabad

- Contributed to Cloud Application Development and Mobility projects with React.js and MS SQL.
- Built scalable, mobile-friendly solutions with real-time updates and secure authentication.

Cybersecurity Intern   June 2022 – Aug. 2022
Datamatics Consulting, Islamabad

- Implemented Python-based encryption systems and automated threat detection tools.
- Performed vulnerability assessments and strengthened system defenses.

Teaching Assistant   Fall 2023 – Spring 2024
FAST NUCES, Islamabad

- Assisted in Computer Organization, Assembly Language, ICT, and DBMS courses.

Projects

CNN Image Classifier

- Built a CNN with TensorFlow to classify Cats vs Dogs images, achieving 96% accuracy.
- Applied adaptive learning rate, advanced preprocessing, evaluated with accuracy, precision, and recall.
- **Technologies:** Python, TensorFlow

Urdu-to-English Translator

- Designed an attention-based encoder-decoder RNN in PyTorch for Urdu to English translation.
- Integrated BLEU score evaluation and optional LSTM variant for enhanced accuracy.
- **Technologies:** PyTorch, BLEU, LSTM

Spam Detector

- Developed a two-layer neural network with handcrafted Word2Vec embeddings (negative sampling).
- Trained using SGD, evaluated with metrics and confusion matrix.
- **Technologies:** Python, Word2Vec, NLP

InfoMorph

- Built an automated tool for scraping, cleaning, summarizing multi-lingual articles using advanced NLP.
- Integrated topic selection, feedback, and concise news summaries via secure, intuitive UI.
- **Technologies:** Next.js, Node.js, MongoDB, FastAPI, Transformers (Pegasus)

Skills

Languages: NextJS, ReactJS, JavaScript, HTML, CSS, Python, C++, Java, C#, Kotlin, SQL, x86 Assembly
Frameworks: Next.js, React, Node.js, Express.js, ASP.NET, .NET, JavaFX, MPI, OpenCL, PyTorch
Developer Tools: Git, Docker, Visual Studio, PyCharm, IntelliJ, Eclipse, MySQL, MongoDB, SSMS, DosBox, Maven