Abdul Samad Siddiqui

+923044057929 | Theasamad6@gmail.com | Lahore,Pakistan.

https://github.com/samadsiddiqui

Summary

Motivated and detail-oriented Electrical Engineering student from UET Lahore, currently in the 8th semester. Proficient in applying theoretical knowledge to practical problems with a strong foundation in circuit design, power systems, and electronics. Adept at collaborating in team projects and learning emerging technologies to enhance technical skills. Eager to contribute to innovative engineering solutions and gain industry experience through internships or project involvement

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Professional Experience

February 2025 – Current

Linked Matrix, Lahore, Pakistan.

June 2024 – August 2024

Arbisoft, Lahore, Pakistan.

Software Development Intern

- Contributed to the development of web applications using modern technologies like Django, REST framework, Python, and JavaScript.
- Collaborated with senior developers to enhance the performance and usability of web platforms.
- Participated in code reviews, debugging, and testing to ensure high-quality code and adherence to best practices.
- Gained hands-on experience in working with databases and version control systems like Git.
- Developed problem-solving and teamwork skills by working on real-world projects.
- Conducted research and implementation on fine-tuning BERT for domain-specific applications.

Educational Background

October 2021 – Present

University of Engineering & Technology (UET), Lahore,

Pakistan. B.Sc. Electrical Engineering

May 2019 – May 2021
Crescent College, Lahore,
Pakistan. F.Sc. Pre-Engineering

Final Year Project: Fine-Tuning BERT for NLP Tasks

Developed a multitask fine-tuning framework for a single BERT model, integrating advanced techniques such as SMART, SBERT, and SimCSE to optimize performance across three natural language processing (NLP) tasks.

- Leveraged contrastive learning (SimCSE), sentence embeddings (SBERT), and adversarial training (SMART) to enhance BERT's contextual representations, enabling robust generalization across diverse tasks.
- Evaluated the model on Quora Question Pairs (QQP), Stanford Natural Language Inference (SNLI), and an additional NLP dataset, achieving accuracies very close to state-of-the-art (SOTA) benchmarks for paraphrase detection, natural language inference, and semantic similarity.
- Presented findings in a comprehensive report and oral defense, effectively communicating complex technical concepts to academic and technical audiences.

- **Key Achievements**: Trained a single BERT model to achieve near-SOTA performance across QQP, SNLI, and a third dataset, demonstrating effective multitask learning for transformer models.

Professional Skills

Microsoft Office	Advanced
Microsoft Visio	Advanced
Team Management	Advanced
Training & Development	Advanced
Presentation	Advanced
Time Management	Advanced

Relationship Building	Advanced
Negotiation	Intermediate
Latex	Intermediate
Matlab	Intermediate
Cross-Functional Collaboration	Advanced
Technical Support	Advanced

Technical Skills

- **Languages:** HTML, CSS,C, Python, SQL, Django, REST framework, verilog
- **Version Control:** GitHub, terminal usage
- **Databases:** SQLite3, PostgreSQL, MongoDb
- **Operating Systems:** Windows, Kali, Ubuntu, Arch
