Abdullah Abbasi
Fresh Graduate Software Engineer

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About Me

I am a fresh computer science graduate with a passion for problem-solving. I am actively seeking an entry-level role as a software engineer. I have a strong foundation in software development principles and an interest in cloud & A.I. technologies. With my enthusiasm to learn and adapt, I am confident in my ability to contribute effectively to any software engineering team.

Education

FAST-NU, Islamabad - Bachelor of Science In Computer Science
- Courses: OOP, Data Structures & Algorithms, Software Engineering, Databases, Computer Networks, Mobile Development, Web Development, Parallel & Distributed Computing, Operating Systems, DIgital Image Processing, Artificial Intelligence, Natural Language Processing, DBMS
- Teaching Assistant for Ethical Hacking at FAST-NU from February 2023 to June 2023

Skills

- **Languages:** Python, C++, C, Javascript, SQL
- **Frameworks & Libraries:** PyTorch, OpenCV, TensorFlow, Hugging Face
- **Tools & Technologies:** Git, Github, Oracle SQL Plus, Anaconda, Visual Studio, Unity

Personal Projects

NMT With Sequence Attention | Python, PyTorch, spaCy, scikit-learn
- Designed Neural Machine Translation Models with Attention Mechanism for Decoder Cells.
- Models catered translations from English ⇄ French, English ⇄ German, and Roman Urdu ⇄ Urdu.
- Consists of 30 Encoder and Decoder Cells coupled with a Seq2Seq LSTM. A combination of PyTorch, spaCy and scikit-learn was utilized for this project.

License Plate Recognition System | Python, OpenCV, Google Tesseract
- Built a License Plate Recognition System for any car with a readable number plate.
- The Haar Cascade Classifier was utilized for finding objects matching license plate shapes. An additional weighted Classifier was used to shortlist detected objects. Tesseract was used for OCR of Number Plates.
- A combination of OpenCV and Google Tesseract was utilized in this project.

Drowsiness Detection System | Python, Javascript, React Native
- Created a real time drowsiness detection system based on ResNet-50 architecture.
- The system was designed to prevent drivers from falling asleep at the steering wheel.
- A react native application developed for the model to facilitate user ease and communication.

Social Media Website Clone | Javascript, React.js, Node.js, Express.js, MongoDB
- Implemented Basic Functionality such as posts include image, location and video posts, timelines, feeds, friends, events and communities.
- MongoDB Atlas was utilized for storage solution and Bcrpyt for password hashing.

Personal Development & Additional Training Courses

- Python for Data Science, AI & Development | Coursera
- Introduction to DevOps | IBM, Coursera
- Crash Course on Python | Google, Coursera