Taneem Jan

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PROFESSIONAL EXPERIENCES

Machine Learning Engineer Intern **Aug 2021 – Nov 2001**
NAECO Blue GmbH – Germany

- The task was to find a weather API so that the teams don't need to overlook any other resources for any kind of data. I talked to different organisations and then tested out their weather API models for forecast and historical data, in terms of annually, monthly, weekly, daily, hourly and minutely.
- My testing and analysis model made the company decide on an API, I recommended. The data pipeline I developed for the company, the analytical charts, models and graphs, they were following to find the best spatial and temporal resolution data for a specific location.
- Using my data pipeline mode, I reduced the development time by almost 65% due to automating the tasks of finding the best relevant data for a specific geographical location.
- *Outcome*: Learned to document what I work - to work in a team, collaboration - the applied deep learning models in industries, outside academia.

TECHNICAL SKILLS

Programming:
Python - TensorFlow - Keras - NumPy - OpenCV - MATLAB/Octave - C++ - MySQL
Domain Knowledge:
Artificial Intelligence, Deep Learning, Computer Vision, Software Engineering, Mathematical Optimization, Code Generation

CORE SKILLS

Teamwork | Problem Solving | Researching Skills | Collaboration
Verbal/Written Communication | Detail-Oriented | Fast Learner

PROFESSIONAL CERTIFICATES

- Deep Learning Specialization from deeplearning.ai, *(Coursera)*.
- Machine Learning from Stanford University, *(Coursera)*.
- TensorFlow Developer Professional Certificate from deeplearning.ai, *(Coursera)*.
- Introduction to Computer Vision and Image Processing from IBM, *(Coursera)*.

HONOURS/AWARDS

- Ranked second in FSc CS Year 2016 Govt. College Peshawar

EDUCATION

Bachelor of Sciences, University of Engineering and Technology Peshawar **Sept 2018 – Oct 2022**
Major: Computer Science

Related Subjects:

- Computational Intelligence
- Artificial Neural Networks
- Data Science
- Software Engineering
- Design and Analysis of Algorithms
- Calculus I and II
- Statistics and Probability

Intermediate in Science, Government College Peshawar **Sept 2016 – July 2018**
Major: Computer Science

Core Subjects:

- Mathematics
- Computer Science
- Physics

PROJECTS

HTML Code Generation from Images with Deep Neural Networks **(Undergrad Research Thesis)**

- Applying the machine translation and image captioning techniques to convert images into words and sentences with the use of deep neural networks.
- Inspecting and featuring images with Convolutional Auto-Encoder, to encode them into lower dimensions and features.
- Decoding and mapping those lower level features with Sequential Networks to generate HTML codes.
- The results achieved are higher and more accurate than the paper comparatively, published with 77%.
- *Stacks Used*: Python, TensorFlow, Keras, OpenCV, NumPy, Matplotlib.

LaTeX Formula Code Generation from Images
(Ongoing Research Project)

- Combining both computer vision and NLP tasks to generate mathematical formulae from images .
- The convolutional encoder captures and extracts inner features from images.
- LSTM based decoder then tries to generate the LaTeX code from the passed token vectors.
- Trying to achieve the results for a machine which at a time can see and speak, towards generalisation.
- Stacks used: Python, TensorFlow, Keras, OpenCV, NumPy.