# Adil Naqvi

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A programming enthusiast looking for excuses to write more code

## Education

**Bachelor of Mechanical Engineering**

National University of Sciences and Technology                                           Islamabad, Pakistan

CGPA 0.00/4.00                                                                                                    2015-2019

**Minor in Computer Science**

National University of Sciences and Technology                                           Islamabad, Pakistan

CGPA 0.00/4.00                                                                                                    2018-2019

**Higher Secondary School Education**

Government College University                                                                          Lahore, Pakistan

Grade 00.0%                                                                                                          2013-2015

### Test Scores

| | |
|---|---|
| IELTS Academic | Overall band: 7.5 |
| GRE General | Quantitative: 162 \| Verbal: 157 \| Analytical Writing: 4.0 |

## Certifications

Applied Data Science Specialization – by IBM through Coursera (Certificate)

Python for Everybody Specialization – by University of Michigan through Coursera (Certificate)

Microsoft Office Specialist Certification – earned at MOS NUST (Badge)

## Skills

**Competent in:**

- Artificial intelligene
    - Deep learning
    - Genetic algorithms
    - Tenserflow
- Data science
    - MySQL
    - Pandas
    - Matplotlib
- Web development
    - Node
    - React
    - MongoDB
- Other technologies
    - MATLAB
    - SolidWorks
    - LaTeX

**Familiar with:**

- Data acquisition (LabView)
- Circuit analysis (Proteus)
- Static stress analysis (Ansys)

## Projects

**Elo prediction** (Demo)
Approximated FIDE's chess Elo formula using a deep neural network modeled in Tensorflow. Achieved minumum MSE loss of 0.02

**Color classifier**
Crowd-sourced and preprocessed data to train a Scikit-learn neural network to classify colors based on their RGB value. Achieved 92% accuracy

**Pakistani food classifier**
Used AutoML Vision by Google Cloud Platform to train a model to classify Pakistani food into 5 classes. Achieved 95% precision with a confidence threshold of 0.6

**Travelling salesman problem**
Used genetic algorithm with mutation in MATLAB to solve the classic TSP. Achieved optimal path for a 20-city network within 15s

## Experience

**Mari Petroleum Company Limited**
Intern | Operations Department | 8 weeks
Documented daily oil rig statistics and made "End of Well" report

**NUST Society of Mechanical Engineers**
Director | Graphics Department | 1 year
Supervised the Graphics & Media team to produce graphics and illustrations for numerous events

## Community service

**Awareness drive**
Conducted "Water Conservation Awareness Drive" at Army Public School, Islamabad amidst the Pakistan water crisis of 2019

**Wall of Kindness**
Collected, cleaned, and distributed 100+ items of clothing to Wall of Kindness in Islamabad as a requirement fulfilment for Community Service course

**Blood donation drive**
Conducted "Blood Donation Drive 2017" at NUST as a member of NUST Community Service Club

## More to me

Chess          Graphics designing          Casual reading          Recreational programming