

# Adil Naqvi

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[github.com/notadilnaqvi](https://github.com/notadilnaqvi)

A programming enthusiast looking for excuses to write more code.

## Education

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<b>Bachelor of Mechanical Engineering</b>	Islamabad, Pakistan
National University of Sciences and Technology	2015 – 2019
<b>Minor in Computer Science</b>	Islamabad, Pakistan
National University of Sciences and Technology	2018 – 2019
<b>Higher Secondary School Education</b>	Lahore, Pakistan
Government College University	2013 – 2015

## Test Scores

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

## Certifications

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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

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### Competent in:

- Artificial intelligence
  - Deep learning
  - Genetic algorithms
  - Tensorflow
- Data science
  - MySQL
  - Pandas
  - Matplotlib
- Web development
  - Node
  - React
  - MongoDB
- Other technologies
  - MATLAB
  - SolidWorks
  - L<sup>A</sup>T<sub>E</sub>X

### Familiar with:

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

## Projects

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### UAV landing strut design ([Thesis](#))

Designed an oleo strut for a UAV. Evaluated crashworthiness using dynamic analysis on Ansys and achieved an FoS of 1.4. Fabricated a scaled down model

### Elo prediction ([Demo](#))

Approximated FIDE's chess Elo formula using a deep neural network modeled in Tensorflow. Achieved minimum 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

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### 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

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### 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

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Chess

Graphics designing

Casual reading

Recreational programming