

# PANTELIS MANIOTIS

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## PROFILE:

A competent data engineer/scientist with a comprehensive knowledge and experience in analysing large datasets and developing forecasting models. His fields of knowledge include:

- Data Engineering
- Relational databases
- Database management
- Software Engineering
- Machine Learning
- Natural Language Processing
- Time series forecasting
- Geospatial Analysis
- Reinforcement learning

Please also check my [online portfolio](#) for a list of personal projects, publications, etc.

## WORK EXPERIENCE:

### CACI

*Data Engineer*

Kensington Village, London, UK

*Feb 2021 – Now*

- Developed ETL data pipelines to provide valuable insights regarding location planning, customer acquisition, and other key business performance metrics.
- Built Machine Learning models for the creation of customer profiles and the grouping of open-ended questions into meaningful classes
- Created interactive dashboards for the reporting of key metrics that were important to the clients.

### UNIVERSITY OF ESSEX

*Data Science / Research and Development*

Wivenhoe Park, Colchester, UK

*Oct 2016 – Nov 2020*

- Simulated 5G mobile networks for the delivery of VR applications, in order to maximise the Quality of Experience users enjoy and minimise the operating cost.
- Extracted valuable insights from the statistical analysis and visualisation of large datasets regarding the users' consumption patterns.
- Developed Machine Learning and Deep Learning models, in order to optimise the performance of the mobile networks.

### NDC TECHNOLOGIES

*Data Analyst*

Heybridge, Maldon, United Kingdom

*May 2018 – September 2018*

- Developed a SQL database for data collection and data analysis processes.
- Built front-end with user menus, input forms, reports, using custom procedures in VBA code and macros to increase consistency of data.

## EDUCATION:

### UNIVERSITY OF ESSEX

- PhD in Computer Science and Electronic Engineering

Wivenhoe Park, Colchester, Essex, UK

*October 2016 – November 2020*

### ARISTOTLE UNIVERSITY of THESSALONIKI (AUTH)

- BSc and MSc in Electrical and Computer Engineering

Thessaloniki, Greece

*September 2007– April 2015*

## SKILLS:

- **Programming languages / tools:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, GeoPandas, SQLAlchemy, Tensorflow, Keras, Jupyter, SQL, NoSQL, R, C, C++, VBA, Bash Shell
- **Specialized computer software:** MS Office, MATLAB, Tableau, Alteryx, SPSS, LaTeX, Adobe Photoshop, GIMP
- **Web Development:** HTML, CSS, JavaScript, Flask, Django, Bootstrap
- **Operating systems:** Linux, Windows, Mac OS
- **Cloud Computing:** AWS (EC2, S3, Glacier, Glue, RDS, DynamoDB, Athena, Elastic Beanstalk, SageMaker, Lambda, CloudWatch)
- **Version Control:** GitHub, GitLab