EBRAHIM JAHANSHIRI
Data Specialist

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Work Experience

Geospatial Data Scientist — *CFF UK (CIC),*

MAY 2020 – PRESENT

- Designed, built, and tested AI models with a team of data scientists and data engineers: http://www.CropBASE.co.uk
- Built a database for European Commission: https://www.sciencedirect.com/science/article/abs/pii/S0168169920331252

Data Science Team Lead — *CFF Malaysia*

SEP 2014 - MAY 2020

- Led a team of 24 software engineers, researchers, assistant managers, and data curators to build production-ready scripts for analysing big spatial data. Example here: https://zenodo.org/record/4563293
- Developed a production-level ecosystem of applications for modelling alternative land-uses using agile methodologies. Example here: http://cropbase.co.uk/src/cropswap/
- Streamlined software delivery lifecycle through effective monitoring tools and database architecture: https://github.com/geoej?tab=repositories

Data analyst — *National University of Singapore, Univesiti Putra Malaysia* – Part time with PhD.

JAN 2006 - MAY 2014

- Web-based data analysis tools for precision farming using R and Shiny: https://github.com/geoej/PFMap
- Developed on off-line software for mass appraisal of real estate properties using R (source available upon request)

Languages

- English – Fluent (Read, Write, Speak)
- Swedish – Beginner

Recent Education

MSc, Applied Data Science, *Joint University of Gothenburg / Chalmers University of Technology, Sweden* — SEP 2020 - JUN 2022
- Axel-Adler Scholarship 2022
- Master project: Generative Adversarial Neural Nets to develop a digital soil database: https://gupea.ub.gu.se/handle/2077/72200

PhD, GIS and Geomatics Engineering, *Universiti Putra Malaysia* — SEP 2006 - SEP 2013
- Research Fellowship Scheme
- PhD project: Spatial-temporal linear regression model comparison for real estate industry: http://psasir.upm.edu.my/id/eprint/60054/

Skills

- **Machine Learning:** Generative Adversarial Neural Networks, Random Forest.

- **Statistical Analysis:** 3D and 2D data analysis, Inferences, Hypothesis Testing, Non-parametric Statistics

- **Programming Languages:** Python (NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow), R (Tidyverse, Sf, Terra, Shiny)

- **Databases:** PostgreSQL, MySQL, Neo4j, GraphDB

- **Cloud Computing & DevOps:** GCP (Compute Engine, Cloud APIs), Docker, VM, Apache

- **Version Control:** GitHub

- **Management Skills:** Budgeting, Publishing, Reporting, Grant Writing, CI/CD

Awards

- Recipient of a 220.000 EUR grant awarded by the European Commission to develop databases and data infrastructures: https://www.landsupport.eu/team/cff/