ANURAG TK

DATA SCIENTIST

Projects are listed at GitHub:
https://github.com/anuragtk88

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Highly analytical and business minded data scientist with an ability to deliver valuable and actionable insights through analytics, statistics and advanced data driven methods. Committed to effective and seamless communication of technical concepts with business stakeholders. Actively pursuing Data Science roles that commend problem-solving and innovation.

EDUCATION

Master's in Data Science, University of Aberdeen, Sep 2019 - Sep 2020 (Expected distinction)

- Statistical methods (Hypothesis Testing, T-Tests, ANOVA, Non-Parametric Methods, A/B Testing, Regression, Resampling)
- Machine learning algorithms and processes (ANN, GLM, Metrics, Parameter and Hyperparameter Tuning)
- Time Series Analysis
- Audio, Video and Image Analysis
- Database management (SQL)
- Programming (Mathematica)
- Data visualization

Bachelor's in Mechanical Engineering, St. Joseph Engineering College, Aug 2013 - Aug 2019

- Management and Entrepreneurship
- Operations Research and Operations Management
- Economics and Management

SKILLS

- Data wrangling / Data Cleaning
- Statistical Analysis
- Business Acumen
- Data Analysis
- Machine Learning
- Data Visualization

TOOLS

- Python (Pandas, Numpy, Sklearn, TF)
- SQL
- Tableau
- Git / GitHub
- MS Office Suite (Excel)
- Mathematica

PROJECTS

Built a real time scanner for YouTube that looks out for videos with a particular person

- Collected, cleaned and preprocessed images for modelling.
- Incorporated Selenium in Python to build a script that scans for videos every 24 hours.
- Trained a CNN classifier with TensorFlow and Keras to effectively flag appropriate images and their corresponding videos.

Benchmarking of the MMD method for genome source attribution

- Built charts with Tableau to visualize rMLST genome dataset.
- Analysed performance of the MMD method implemented in R in order to quantify information to computational complexity ratio.
- Compared multiple datasets with varying levels of information and discerned ones which maximise efficiency of source attribution.

Design and fabrication of a POC machine from scratch that reproduces any colour it senses

- Data cleaning and processing methods in C language along with electrical, electronic and mechanical components were integrated to function effectively.
- Successfully converted sensor input data to quantify proportion of paint of each colour required for mixing.

SOFT SKILLS

Communication: My ability to communicate effectively has been founded with a habit of voracious reading. Have taught physics, maths and algorithmic and programming concepts to beginners. Habit of writing has given me the ability to put complex thoughts into words and ensure accurate and highly discernible reporting.

Teamwork and leadership: Working as a Lidar Data Engineer led me to garner listening skills, honesty and collaboration. Working as a part-time waiter during my Master's has taught me seamless communication even without the use of words. Taking responsibility for a team of four to complete the Bachelor's project has given me the ability to lead effectively, delegate and steer initiatives.

Business awareness: Helping with a printing business and a distribution business has provided me with insights into practical working scenarios. Made me aware of various kinds of setbacks and misgivings that can occur in a business setting.

Risk and resource management: Day trading in the cryptocurrency market has imbibed in me the importance of controlling risk and its hedging. It has also taught me effective resource management skills that allow me to expend resources with a deliberate intention to maximise returns.

WORK EXPERIENCE

Lidar Data Engineer, **Magnasoft Consultancy, Jun 2018 - Dec 2018**

- Analysis of cloud point data
- Classification of 3D data
- Segmentation of data points into categories

OTHER ACHIEVEMENTS

- GRE score: 323
- Successfully day traded on the cryptocurrency market to generate 6000%+ profit.
- First place in virtual round for eBAJA, a dune buggy fabrication and racing competition, in the state.
- First place in University interdepartmental science quiz competition.

INTERESTS

- Science
- Reading
- Gaming
- Physics, maths and computers tutor
- Mindfulness
- Motorbikes
- Running
- Trekking
- Music
- Chess
- Adventure
- Meta physics