RODO NGUYEN

ML Engineer, Data Scientist, Software Engineer, MLOps Engineer

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I'm a motivated gonna-be developer wanting to build tools that improve human lives and solve impactful problems. I have participated in multiple projects that involves building deep learning models, software application, data analysis, teamwork and so on. With the accumulated diverse skill-set, I'm excited to take on new challenges.

EDUCATION

Queensland University of Technology (QUT)   Aug 2019 – Nov 2022
Bachelor of Information Technology - GPA: 6.4 / 7.0
Major: Computer Science; Minor: Intelligent Systems
Highlight skills: artificial intelligent, algorithms, critical thinking, data analysis, web, cloud, software, project management

EXPERIENCE

Vacation Researcher – QUT   Dec 2021 – Present
Python, BashScript, Ubuntu | Research, Machine Learning, Software Development
- Analysed the Effectiveness of Verifiable Python (vPython) for Software Cybersecurity by examining memory traces from running various Machine Learning programs
- Reduced ~95% manual work by developing an automated analysis pipeline with Bash Script and Python
- Won the best research poster award

HiQ Concierge – QUT **| Teamwork, Customer facing**   Nov 2021 – Feb 2022
- Worked collaboratively to service our QUT students and the public for all of their university-related queries
- Communicated effectively with clients and guided them through the resources / solutions

SKILLS

Programming: (Proficient) Python, JavaScript; (Intermediate) Java, C#, C++, SQL

OS & Tools: Linux/Ubuntu, Git / GitHub, Jira, Bash Script

Artificial Intelligence & Data Analytic related: Python Data Science libraries (Pandas, Numpy, Keras, PyTorch, Sklearn, Matplotlib, etc.), Statistics and Maths, Machine Learning model design, Data manipulation and visualisation

Software Engineering related: Cloud services, Algorithm and Data structure, ExpressJs, React, NodeJs, Docker,

HIGHLIGHT PROJECTS

Twitter Spam Detection | Natural Language Processing, Data analysis / visualisation / engineering | GitHub (includes report)
Python (Keras, Pandas, Numpy, Sklearn, Matplotlib), Git
- Able to identify spam tweets with >**95%** accuracy using 4 Machine Learning methods: **LSTM, Transformer, SVM and Naive Bayes**
- Incorporated more useful tweet metadata by expanding existing model design, leading to better learning and thus higher accuracy
- Attained insightful conclusions of the model behaviours through rigorous analysis on failed cases
- Evaluated each method's suitability on real world application

Also in this repository: Reports and Codes of Movie Recommendation (Clustering), Number Recognition (Computer Vision), Person Re-identification, Forest Classification, Crime Prediction (Regression Model)

BitTracker | Data Analysis, Finance, Data Querying | GitHub
Pandas, React, WebAPI
- Algorithm backtest showed **>50% profit annually** by applying supertrend indicator which is effective with strong trending market like cryptocurrency. Integration with other indicators (e.g. Nadaraya-Watson estimator) also show huge potential.
- In experimental live trading and browser interface development phase

Twitter E-nalyst | *Software Engineering, Front and Back-End* | GitHub
NodeJs, React, AWS, RestAPI
- A web application with intuitive & modern user interface that analyses the sentiment of a keyword on Twitter
  Implemented auto-scaling server on AWS to handle inconsistent usage nature of users and Redis to reduce latency significantly on repeated request down to tens of milliseconds

CERTIFICATES

- GovHack 2021: Honourable mention (certificate) with project 'Outliers' (GitHub repo) in Youth education and employment
- Deep Learning with PyTorch @Jovian
- AI for everyone @Coursera: General knowledge of AI
- LinkedIn Badges: Linux, Machine Learning, Python, C#

VOLUNTEERING

- **Secretary** at VietQ (QUT Vietnamese Students Association)   Nov 2020 – Nov 2021
  Promoted Vietnamese culture as a team and managed intermediate & long-term activities of the organisation
- **International Students Officer** at QUT Student Guild   Dec 2020 – Dec 2021
  Advocated for and assisted international students in university-wide scale to ensure they have adequate conditions to thrive.

REFEREES

Dr. Gowri Ramachandran – My supervisor for Vacation Researcher position
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