HUY Vu Duc

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Education

- **University of Information Technology** — Ho Chi Minh City, Vietnam
  Master of Science in Computer Science — *Aug 2018 – Present*
- **University of Information Technology** — Ho Chi Minh City, Vietnam
  Bachelor of Engineering in Computer Engineering; GPA: 3.49 (8.72/10.0) — *Aug 2013 – Feb 2018*

Experience

- **FPT Telecom** — Ho Chi Minh City, Vietnam
  Data Scientist — *Mar 2018 – Present*
  - **Network Infrastructure Analysis**: Analyze huge telecommunication logs to detect whether customers are having Internet issues. Various techniques were used: k-mean clustering, k-nearest neighbors, regressions, A/B testing, hypothesis testing.
  - **Customer Churn Reduction**: Build several models to detect which customer is going to churn. Features for these models are network quality, user demographics. The model is based on SVM classification and required lots of feature engineering.
- **KMS Technology, Inc.** — Ho Chi Minh City, Vietnam
  Machine Learning Intern — *Aug 2017 – Dec 2017*
  - **Human Resource Chatbot**: Develop a Chatbot for HR field, especially for Recruitment (understanding and matching Resume and Job Description). Using scikit-learn and spacy for understanding natural language, using knowledge graph (built with neo4j) for matching documents.
- **Renesas Design Vietnam Co., Ltd.** — Ho Chi Minh City, Vietnam
  Software Design Trainee — *Feb 2017 – Aug 2017*
  - **Embedded MCU Simulation**: Join in a project which develops a tool for co-simulation between an IDE from Renesas interlinked with MATLAB MathWorks. Technology used: MATLAB, Python, C++
- **Renesas Design Vietnam Co., Ltd.** — Ho Chi Minh City, Vietnam
  Software Design Intern — *Apr 2016 – Sep 2016*
  - **Tool development**: Develop a Python automatic testing tool for supporting an internal project.

Projects

- **Diabetic Retinopathy Classification Using Deep Learning Model**: Multi-class classification diseases stage based on large sets of retina images. Final accuracy is comparable. This is my graduation thesis. Core technologies are: deep learning (tensorflow), convolutional neural network and image processing (Link to the Thesis Report)
- **Sentiment Analysis For Supporting Cryptocurrency Trading**: A hobby project that crawls text from cryptocurrency forums and analyses the sentiment to predict Bitcoin price trend.

Achievements

- **Salutatorian on graduation**: Graduation with Rank 2/32 in Department of Computer Engineering
- **Scholarships for Excellence Academic Results**: Awarded in 8 out of 9 semesters
- **Other scholarships**: Sunflower Mission Engineering and Technology Scholarship (2015)

Other Skills

- **Language**: Professional proficiency in English (IELTS 7.0, TOEIC 980)
- **Programming Languages**: Python, MATLAB, R, C/C++
- **Other Coursework**:
  - **Machine Learning**: by Andrew Ng at Coursera
  - **Neural Networks and Deep Learning**: by Andrew Ng at Coursera (Link to Certification)

Referees

Prof. Lung Duc Vu
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