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**OBJECTIVE**

Data scientist in marketing industry, with a bachelor's background in software engineering. I am excited about obtaining data-driven insights and leveraging data science skills to solve business problems.

**SKILLS**

● ***Technical Skills:***Programming, Machine Learning (supervised, unsupervised, deep learning), Databases (data warehouse, distributed database), Association Rules, Data Visualization, Recommendation, Statistics, Natural Language Processing, Big Data

● ***Tools:***Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Keras, TensorFlow, XGBoost, LightGBM, PySpark, Librosa, NLTK, BERT, Transformer, T5, Django, Selenium, BeautifulSoup), SQL, MySQL, PostgreSQL, Git/GitHub, Jupyter Notebook, VS Code, Tableau, Excel, HTML, CSS, JavaScript, RESTful API, Command Line, AWS (EC2, S3, Kinesis, DynamoDB, Lambda, Glue, Athena, EMR, SageMaker, Elasticsearch, Redshift, QuickSight)

**WORK EXPERIENCE**

***Zalo, Data Scientist*** *7/2020 – 10/2020*

● Conducted comprehensive analysis of music trends, music preferences to create users’s music profile for recommendation at Zingmp3.

● Optimized the performance of music recommender system by reducing the generating time of one candidate list from 6s to 2.5s.

● Deployed the spell-checking tool to detect and fix spelling and grammatical errors in Vietnamese journals for Baomoi.com.

● Adapted new approach (Transformers/T5) to the spell-checking tool, significantly reduces checking time by half from 9s to 4.5s per 1,000 text sentences.

***TMA Solutions, Backend Developer Intern*** *7/2017 – 9/2017*

● Cleaned and integrated over 24,000 rows data of different sources from third party partner businesses.

● Created data pipeline for regular checking data quality, maintained the integrity between data warehouse and database system.

● Optimized backend code to be delivered to front-end in milliseconds, increases the effiency of API services.

**SIDE PROJECTS**

**[BOT Detection for Online Auction](https://namthatman.github.io/" \l "portfolio)**

● Predictive model used to detect if an online bid is placed by a machine or human, helped easily flag these bot users for removal.

● Feature engineering on history bid data, and ensembling models from Logistic Regression, Random Forest, GBTree, XGBoost, lightGBM to delivered excellent CV score of 0.9535 on train data.

**[GTZAN Music Audio Classification](https://namthatman.github.io/" \l "portfolio)**

● Classification models used to classify music audios into genres, using 1,000 audio tracks (30s long, 22kHz Mono, 16-bit, .wav format).

● Two models are built based on different approaches: CNN model (melspectrogram images), and ANN model (sound features extraction).

**[Ames House Prices Regression](https://namthatman.github.io/" \l "portfolio)**

● Performed comprehensive EDAs, applied feature engineering on missing values, outliers, encoding, and skewed features.

● Achieved RSMLE of 0.0759 by ensembling models from lasso, elastic net, SVR, GBTree, XGBoost, LightGBM.

**[Movies Recommender System](https://namthatman.github.io/" \l "portfolio)**

● RecSys is built by ensembling 4 filtering methods: Content-based, Neighborhood-based collaborative, Matrix factorization, Neural Nets.

**[Language Adventures App](https://namthatman.github.io/" \l "portfolio)**

● A scrum team project consists of a mobile application (iOS, Android), and a web-admin application.

● LA is a story-based scavenger hunting game system, with the purpose of encouraging learning languages through video game.

**EDUCATION**

**The University of Queensland** **Brisbane, QLD, Australia**

*Bachelor of Science – Computer Science* *2/2018 – 7/2020*

*Areas of Interest:* Data Science, Machine Learning. *GPA:* 5.6 / 7.0

**Ho Chi Minh University of Technology Ho Chi Minh City, Viet Nam**

*Bachelor of Computer Science 9/2015 – 6/2017*

*Awards:* Academic Dean’s List (2015 - 2017) awarded for students with excellent academic performances.