Đào Duy Đại

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EDUCATION

Foreign Trade University | *Class of 2024*   Hà Nội, Việt Nam
Bachelor of Business in Japanese-Style International Business (JIB); GPA: 3.63 /4.0   Expected Jul. 2024
- *Coursework:* Financial Analysis, Econometrics, Business Plan V-BIZ, Business Communication, Business Economics.

WorldQuant University | *2023*   Online Program
Applied Data Science Lab Program   Aug. 2023 - Dec. 2023
- Completed eight end-to-end, applied Data Science projects, including Customer Segmentation, A/B Testing, Database Management, ARMA Time-series Model; demonstrating advanced proficiency in Python, SQL, and machine learning.

Honors & Awards
- Score 29/30 (A department) in the National High School Graduation Exam 2020 with 10/10 in Math;
- Achieved dual valedictorian honors: Tuyen Quang province (2020) and JIB faculty entrance, Foreign Trade University

WORK EXPERIENCE

Data Scientist | *Dagoras Technology and Communication JSC*   Jan. 2024 - Apr. 2024
- Gained proficiency in a comprehensive technical stack, including Python, PostgreSQL, advanced Machine Learning, supporting the deployment of scalable data science solutions coupled with adept management of remote SSH servers.
- Participated in the full lifecycle of end-to-end data science projects, from initial client consultations and requirement gathering to deploying and managing solutions as scalable APIs within client systems, demonstrating a comprehensive grasp of the machine learning lifecycle and project management.
- Worked closely with the Data Analysis department to refine raw data into actionable insights, playing a key role in streamlining data processing workflows and enhancing project efficiency.
- Contributed to the application of machine learning concepts, particularly in supervised and unsupervised learning, aiding in the development of innovative solutions to business challenges.
- Engaged in cross-departmental collaboration, helping translate complex project objectives into actionable data-driven solutions that supported strategic business goals.

FEATURED PROJECTS (more details at https://hankniel.github.io/)

Predictive Whitelist Model | *Python, Flask, PostgreSQL*
- Innovated a bespoke tree-based model derivative aimed at generating efficient whitelists, achieving 90% accuracy in generating whitelists for telecom services, providing a targeted approach to customer service provisions.
- Managed full-cycle model development, from data preparation and algorithm optimization to API deployment, utilizing Python, Flask, and PostgreSQL in a remote SSH server environment.
- Engineered and implemented a resilient API service, integrating predictive whitelist models into the client interface for improved targeting strategies.

Telecommunication Recommendation System | *Python, Flask, PostgreSQL*
- Implemented classification and collaborative filtering algorithms to accurately segment customers and generate personalized recommendations, showcasing the potential to enhance customer engagement.
- Designed and developed various benchmark models and multi-layered recommendation systems, facilitating comprehensive comparisons and optimized performance across different system layers.
- Integrated these models into a complete recommendation algorithm, preparing a sophisticated, deployable solution for client systems to dynamically improve user engagement and service delivery.

Customer Segmentation Analysis and Churn Prediction | *Python*
- Analyzed Pizza Hut's fictitious customer data to clean, transform, visualize, and derive actionable insights, employing KMeans for RFM segmentation in a competitive market scenario.
- Provided strategic insights and recommendations for customer clusters, leveraging advanced machine learning techniques and BG/NBD - Gamma-Gamma Model for churn prediction and customer lifetime value analysis.

SKILLS

Technical Skills: Proficient in Python (data cleaning, transformation, mining, wrangling); SQL (complex queries, functions, stored procedures, triggers); Experienced with Linux commands and managing projects on remote SSH servers; Familiar with basic PySpark, Git commands and Docker
Machine Learning: Skilled in supervised and unsupervised learning, recommendation systems, introductory NLP tasks
Soft Skills: Exceptional problem-solving, analytical thinking, effective communication, and collaborative teamwork
Languages: Conversational proficiency in English, N3 proficiency in Japanese

CERTIFICATIONS

- DataCamp Data Analyst Professional; DataCamp Data Engineer Associate
- Hackerrank SQL Advanced
- WorldQuant University Applied Data Science Lab