PHU N DANG | dangnphu31@gmail.com

(669) 274-8956 | pndang.com *(personal portfolio)* **| linkedin.com/in/phungocdang | github.com/pndang**

PROFILE | Born and raised in Vietnam. Current undergraduate student driven to apply data science and urban design in addressing the world's challenges. As a first-generation, undocumented student, my experiences have shaped my perspectives and work ethic, empowering me to work effectively, both individually and in teams, to develop innovative, impactful solutions.

EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO

Data Science, BS - Real Estate & Development, BS *(double-major)*   **Graduation Date: June 2025**

EXPERIENCE

NIEMA LAB | Computer Science & Engineering | San Diego, CA   **Sep 2022 – Jun 2023**
Data Science Trainee & Researcher *(Mentor – Dr. Niema Moshiri)*
- Developed an interactive application to visualize Covid-19 time-series data with variant segmentation
- Optimized app by reducing 97% of initial runtime through memoization and efficient data structure implementation
- Benchmarked data compression techniques to optimize serialization efficiency and expedite loading speed
- Created in-depth visualizations to uncover patterns in 30+ large-scale datasets involving 3000+ cancer patients
- Exceeded 87% accuracy across diverse evaluation metrics, in accurately predicting breast cancer recurrence status
- Analyzed disparities and data collection gaps to ensure ethical and responsible data science practices
- Implemented and assessed solutions to handle imbalanced data for reliable predictions
- Applied robust false discovery correction for reliable statistical conclusions

GOING SOLO | Business Intelligence & IT Consulting | Johannesburg, South Africa   **Jun 2022 – Aug 2022**
Lead Data Analyst Intern
- Implemented a character-based word embeddings model to improve words/phrases cognition for text classification
- Developed an automated Bayesian text classifier to streamline data labeling processes
- Analyzed an S&P 500 stock/financials and developed an interactive dashboard in Tableau
- Enhanced and maintained a PM dashboard, enabling real-time progress tracking/reporting to supervisors
- Managed projects and led team communication across 7+ time zones for effective collaboration and timely delivery

DELOITTE Data Science Mentorship Program | Business Consulting | San Diego, CA   **Feb 2022 – May 2022**
Student Mentee
- Utilized ARIMA models in R to generate accurate employment metric forecasts
- Conducted in-depth analysis to extract actionable insights using multiple linear regression, EDA, and visualization
- Collaborated closely with a mentor from Deloitte, receiving personalized guidance and support on a weekly basis
- Presented findings to an audience of Deloitte practitioners and advisors from the Halicioglu Data Science Institute

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PROJECTS

Illuminating Cognizance | Personal Project

A comprehensive look into major power outages in the U.S. to assess statistical relationships through exploratory analysis, hypothesis testing, data missingness assessment, and predictive power using supervised machine learning models and feature engineering, built in pipelines with evaluation comprising diverse accuracy metrics and cogent assessments.

World Happiness Report 2022 | Team Project

Conducted a comprehensive analysis of global happiness patterns using public data from the 2022 World Happiness Report to uncover insights into the factors influencing well-being worldwide.

SKILLS & ACTIVITIES

- **Key Competencies:** Data Analysis, Machine Learning, Statistical Modeling, Visualization, Data Ethics
- **Native/Bilingual Fluency:** English, Vietnamese
- **Active Leadership/Extracurricular Roles:**
    - President of Biokind Analytics - UC San Diego Chapter *(biokind.org)*
    - Event Coordinator and Player on UCSD Men's Club Water Polo Team (*2022 National Champion*)
    - DS3 Workshops Committee Member (Data Science Student Society - ds3.ucsd.edu) *(BI & SWE Domain)*