Chelsea Ramos

linkedin.com/in/chelseanbr github.com/chelseanbr Portfolio: chelseanbr.com

SUMMARY

Adaptable, driven to **optimize** and **communicate insights**. Solid **quantitative background** from engineering, **2.5+ years programming, analyzing, and interpreting data** for a **fast-paced** semiconductor company.

SKILLS

DATA SCIENCE: Data Analysis/Visualization (Matplotlib, JMP statistical software, Tableau, Excel, PowerPoint) | Exploratory Data Analysis (EDA) | Machine Learning/Modeling (Linear/Logistic Regression, Ensemble) | Unsupervised Learning (Clustering) | Natural Language Processing (NLP) | Neural Networks | Deep Learning | Feature Engineering | Data Cleaning | Hypothesis or A/B Testing | Design of Experiments (DOE)

PROGRAMMING: Python (Pandas, NumPy, SciPy, Statsmodels, Scikit-Learn, TensorFlow/Keras, Spark/PySpark, NLTK, BeautifulSoup4, Seaborn) | Jupyter Notebook/Lab | Linux/Unix | Git (GitHub) | MATLAB | Java | Agile Frameworks | Algorithms and Data Structures

DATABASE: SQL (MySQL, PostgreSQL) | MongoDB

WEB TECHNOLOGIES: Amazon Web Services (AWS EC2, S3) | HTML/CSS | Docker | Flask

SOFT SKILLS: Written/Verbal Communication | Problem Solving | Team Player | Project Management

DATA SCIENCE PROJECTS

Between the Lines of Tripadvisor Hotel Reviews (github.com/chelseanbr/between-the-lines-hotels): Scraped 1.2 million reviews, leveraged NLP, trained and evaluated regressions, ensemble models, deep neural networks; deployed final CNN-LSTM neural network sentiment classifier: tinyurl.com/rating-predictor.

Featured Technologies: AWS EC2 | Docker | Flask | TensorFlow/Keras | NLTK | Scikit-Learn | BeautifulSoup4
What's In My Makeup Bag? (github.com/chelseanbr/Whats-In-My-Makeup-Bag):

Cleaned data, analyzed 100,000 harmful cosmetics with **Pandas, Matplotlib, Seaborn**; conducted **hypothesis testing** across companies of interest, **presented EDA and findings** to data science peers and instructors. **Detecting Fraud (Slides: tinyurl.com/fraud-detection)**: **Cooperated in team of 4**, performed **EDA, feature engineering** and **hyperparameter tuning**; took charge of modeling, built and assessed 7 classifiers on 5-fold cross-validation precision, ROC AUC; **deployed best model** (random forest) for **real-time fraud detection**.

EXPERIENCE

Product Engineer (New Product Introduction) - Xilinx, San Jose, CA

Sep 2017 - Mar 2020

- Initiated and implemented new Python scripts, improved upon existing analysis tools; managed project and exceeded expectations, optimized data summary process from 2 days to minutes
- Wrangled, visualized and assessed millions of silicon measurements with JMP; collaborated crossfunctionally, communicated and eliminated issues found, handled and released 3 product lines
- Coordinated with project managers, arranged data collection with clear instructions to technicians, took initiative and **delivered over 10 new products on-time or early** to internal/external customers
- Executed creative experiments (DOE) and **translated data into insights** to drive key decisions for yield improvement; achieved high yield increased from **less than 50% to over 90%**

Hardware Engineering Intern - dTOOR, Seattle, WA

Dec 2016 - Jun 2017

- Created product requirements documents in **startup team of 5**, assembled product on tight schedule, managed component library; **launched functional circular smartphone prototype in 6 months**
- Designed and implemented PCB and circular UI, integrated touch display, accelerometer, wireless charging; **introduced prototype to over hundreds of people** at UW research symposium

EDUCATION