

KUNAL RAI

kunal.s.rai@rice.edu — 817-701-9499 — in/kunalsrai — github.com/kunalrye — kunalrai.com

EDUCATION

Rice University

2017 - 2021

B.S. Electrical and Computer Engineering, Specialization in Data Science, Minor in Business

Relevant Coursework: Random Signals & Processes, Learning From Sensor Data, Operations Research and Optimization, Algorithmic Thinking, Data Analysis, Signals, Systems & Learning, Financial Accounting, Marketing, & Economics

SKILLS

Languages & Frameworks	Python, SQL, Spark, TensorFlow, Keras, NLTK, XGBoost, spaCy, MATLAB, & Git
Software & Skills	Product Management, Project Management, AWS, DataRobot, & Graphic Design

EXPERIENCE

Product Management Intern - Cisco

May 2020 - August 2020

- Created scripts to automate handling and forecasting re-certification costs for international networking products, reduced lead time and manual labor dedicated to manually conduct calculations of re-certification costs by 50% (**Python**)
- Implemented internal process improvements and data integrity standards to create a platform for future automation of general metric tracking, reducing time devoted to upkeep of dashboards by 25%
- Led cross-functional engineering teams; accelerated progress of multiple programs towards customer ship during COVID, managed R&D budget of \$60k (**Waterfall**)

Data Science Intern - Chevron

May 2019 - August 2019

- Predicted total production of random, non-declining oil wells with 25% error using machine learning models (**Python**)
- Reduced time spent by subject matter experts in forecasting well production by 70% with XGBoost & Random Forest
- Created data pipeline to pull and clean raw well data using **Spark and SQL** for future usage

Software Engineering Intern - Lockheed Martin (Secret DOD Clearance)

May 2018 - August 2018

- Designed and developed a tool to automate and predict value of F-35 software changes worth \$50M+ with 85% accuracy
- Reduced manual verification time by 65% by aggregating estimations, user experiences, and feedback (Visual Basic)

PROJECTS

Extractive Text Summarization of 10-Q Documents to Improve Financial Literacy

- Created pipeline for extractive summarization of 10-Q documents to reduce knowledge barrier for individuals new to investing and corporate reporting
- Developed novel semi-supervised LDA model to replicate human extraction on 10-Q reports with mean recall scores of 0.3

Founder of Nut Free Granola Bar Startup - Competitive Analysis & Market Research

- Created business and marketing plans for nut free granola company with market analysis and industry growth trends
- Increased the chance that a customer selects the nut-free bars by 30% through designing product packaging and marketing materials (n=1000)
- Conducted **A/B Testing** on target customers to determine most appealing presentation and ingredient profile for the bars

LEADERSHIP & EXTRA-CURRICULAR

President - IEEE, Increased industry events by 50% by working with other campus organizations 2019 - Present

Research Assistant - Jones Graduate School of Business, Topic modeling for sustainability reports 2019 - Present

Product Designer - Led design teams and developed designs that produced \$10k in funds for clubs 2018 - Present

PWC Presentation Competition - Placed **3rd out of 800** submissions for best final oral presentation at Rice 2017 - 2018