

KUNAL RAI

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EDUCATION

Rice University

2017 - 2021

Major: B.S. in Electrical Engineering

Specialization: Data Science **Minor:** Business

Relevant Coursework: Computational Thinking, Signals & Systems, Random Signals, Marketing, & Economics

EXPERIENCE

Chevron Corporation

May 2019 - August 2019

Data Science Intern

- Developed Machine Learning model to predict total production of non-declining oil wells with 25% mean error (Python)
- Created ML models with DataRobot to mimic SME outlier optimization of well data for decline curve analysis
- Utilized Spark and SQL with a cluster to pre-process Midland region oil well data for modeling

Rice University - Jones Graduate School of Business

Jan 2019 - Present

Research Assistant for Professor Sachdeva

- Conducted analysis on location data to determine relationships between economic events for certain profiles (Python)
- Proposed efficient pre-processing methods using Dask and Pandas to reduce filtering times by 75%

Product Designer

August 2018 - Present

Independent

- Led design team of 3 members through stages of research, design, implementation, and production of merchandise
- Designed merchandise which created \$8k for different campus organizations and events, \$3k as Design Lead for Rice IEEE
- Worked with designers, suppliers, and campus organizations to reduce cost of custom merchandise by 15%

Rice University

August 2018 - May 2019

Teaching Assistant

- ELEC 220: Guided 20 students through labs related to data representation, computer organization, and basic assembly
- ENG 120: Mentored 4 engineering design students on technical writing and presentation skills, improving average grades from B- to A- over the course of the semester

Lockheed Martin Aeronautics

May 2018 - August 2018

Software Engineering Intern F-35 Program

Active Government Clearance

- Developed a standalone tool to automate and predict monetary value of F-35 software changes worth \$500M+
- Combined knowledge of estimations, user experience, & feedback to reduce time needed to receive prediction by 65%
- Tested the F-35 controls system software updates integrity and redundancy through flight simulation

SKILLS

Programming Languages

Python, Visual Basic for Applications, SQL (some)

Software & Skills

DataRobot, Azure, Spark, Git, Jupyter, Product Management & Project Management

EXTRA-CURRICULAR

IEEE - Vice Chair, Led department initiative to centralize communications between faculty & students

2019 - Present

Rice Undergraduate Investment Fund - Senior Portfolio Review Analyst, Technology Sector

2018 - Present

Rice FinTech - Secretary, Developed curricula to teach students about fintech, coding, & finance

2017 - 2018