Srikar Vootkur

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EDUCATION

Bachelor of Science - Mathematics (Minor in Computer Science)

Sep 2017 - May 2021

University of Wisconsin-Madison (GPA: 3.33)

Madison, WI

Continuing Education

Jan 2022 - June 2022

University of California - Irvine

Irvine, CA (In-Person)

- MATH 205B - Introduction to Graduate Analysis - COMPSCI 179 - Algorithms for Probabilistic and Deterministic Graphical Models

Continuing Education - Mathematics

Jan 2024 - Present

Johns Hopkins University (GPA: 4.0)

Baltimore, MD (Remote)

- 110.412 - Honors Astract Algebra II (Grade: A+)

- 110.413 - Introduction to Topology (Grade: In-Progress)

SKILLS

Programming Languages

Python | C++ | Java | R

Technologies Pandas, Scikit-Learn, PyTorch, Tableau, Apache Spark

EXPERIENCE

Pacific Life June 2021 - Aug 2023

Predictive Data Analytics Analyst

Newport Beach, CA

- · Managed the Fixed Index Annuity products for the Retirement Solutions Division, including: proposing biweekly rate updates, forecasting profitability using linear regression, and presenting to Pricing Team directors in a Tableau dashboard
- Led a project to transition the calculation of monthly returns from Excel to Python to eliminate human error and save about ten hours each month, entailed creating an object-oriented program with the help of two team members
- Implemented an automated Python-based options pricing tool using the Black-Scholes formula to calculate index call option prices monthly
- · Developed an ETL pipeline to update Renewal Rates in Snowflake, which was used by the marketing, product, and sales teams

Pacific Life May 2020 - Apr 2021

Actuarial Intern

Newport Beach, CA (Remote)

- Created an illustration tool for the Fixed Index Annuity hedging model
- Translated an Implied Volatility model from C# to Python to allow for modularity and transparency

Department of IT, UW-Madison

Aug 2019 - May 2020

Madison, WI

Performed software testing to verify additions and patches for the main Human Resource databases

On-boarded new students to the functionality of the databases and the main daily operations

TAI Diagnostics Jan 2018 - Aug 2018

Data Science Intern

EBS/ERP Student Analyst

Wauwatosa, WI

- Improved the threshold estimate for the ratio of donor DNA in a non-invasive heart transplant rejection test by analyzing and performing linear regression on LightCycler data in R
- Created an Excel tool to assist nurses and lab technicians in clinical trials of gathering DNA data from blood samples with a LightCycler

PROJECTS.

Breast Cancer Classification

Sep 2024

 Performed EDA on the Breast Cancer Wisconsin dataset and built a neural network from scratch using objectoriented principles to obtain a 98% accuracy in identifying whether a tumor was malignant or benign.

NBA Scoring Prediction Model

Oct 2024

- Built a Gradient Boost model from scratch to predict points scored by a player in upcoming games
- Developed a dynamic front-end for the app that is hosted using Streamlit cloud