Robed Beauvil-Owen

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EXPERIENCE

MACHINE LEARNING ENGINEER, EPARTS SERVICES LLC, PITTSBURGH, PA – SEPTEMBER 2023 - PRESENT

- Designed and deployed a shipping estimation API in C# for credit card prepaid customers, achieving a .27 MAPE and reducing wait time by 4-5 days.
- Engineered and deployed a hybrid recommendation system using matrix factorization, content-based, and popularity-based methods to enhance user experience and engagement across 13+ core tenants.
- Partnered with senior developers to streamline QA site deployment processes, using Docker containers and Bitbucket, saving developers 40 minutes of manual deployment time.
- Enhanced product search engine functionality and search algorithms leveraging NLP methodologies, reducing 1 and 2-star reviews by 37%.

DATA SCIENTIST, LIMETREE, DALLAS, TX – APRIL 2022 - SEPTEMBER 2023

- Improved Medicare eligibility prediction accuracy by 20% within Limetree's machine learning pipelines.
- Increased recall by 11% using boosted decision tree algorithms, predicting response to marketing campaigns.
- Developed Python (GeoPandas) and PostgreSQL software for visualizing target regions for campaign events, saving analysts 30 minutes of preparation time.
- Presented analytics reports to senior management and key stakeholders using Power BI, PowerPoint, and Excel within a team of 8.

GRADUATE RESEARCHER AND TEACHING ASSISTANT, UNIVERSITY OF PITTSBURGH, PITTSBURGH, PA – AUGUST 2018 - APRIL 2022

- Led recitations in calculus 1, 2, 3, linear algebra, and discrete mathematics, with an average rating of 4.3/5.
- Implemented Python to test 1000+ cases rapidly, leading to original results in fix-point theory.
- Coordinated 2 seminars on the math behind relational databases and SQL queries, applications included.
- Launched an online visualization tool that displayed calculus steps, integrated chatbot included 75+ responses.
- Coached students during office hours (1-5 students at a time) utilizing Python to demonstrate basic probability distributions, optimization problems, and linear regression.

SOFTWARE ENGINEER INTERN, CYDOC, DURHAM, NC – NOVEMBER 2020 - APRIL 2021

- Teamed with 5 engineers to create doctor-patient database models and APIs using Amazon Web Services.
- Optimized performance using Git version control, REST API development best practices, and a clean code design, with an average of 5 code reviews daily.

UNDERGRADUATE RESEARCHER, FLORIDA STATE UNIVERSITY, TALLAHASSEE, FL, – AUGUST 2016 - JUNE 2017

- Collaborated with Dr. Ettore Aldrovandi and proved binary trees satisfy the Tamari order, 40 pages.
- Created new ideas in type theory and awarded honors in the Major by defending an undergraduate thesis, including 100+ lines of code.

EDUCATION

University of Pittsburgh, Pittsburgh, PA – PhD, Major in Mathematics
University of Pittsburgh, Pittsburgh, PA – MA, Major in Mathematics

SKILLS

Python, C#, Git, SQL, Machine Learning, Statistics, Probability, Sci-kit Learn, Mathematics, PowerBI, NLP, Docker