Ekam Ghotra

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Experience

Fall ML Engineering Intern

Sep 2024 - Present

Equii Foods

Remote

• Fine tuning regression and classification models to identify outlier proteins in prototype recipes of future food products using Python's TensorFlow and Sci-Kit Learn

Data Engineering Intern

Jun 2024 - Aug 2024

Comcast Corporation - Advanced Engineering

Livermore, CA

- Specialized in deriving actionable insights from data representing efficiency & reliability metrics of field-active tech
- Utilized Microsoft & Oracle SQL servers in creating a seamless data warehouse integration framework, often accessed through **DBeaver** for streamlined data management
- Leveraged advanced SQL querying techniques & Python scripts to engineer data pipelines and enable automated checks for data completeness for subsequent analysis and modeling needs, contributing to a 10% increase in team-wide task ideation for the duration of the summer

Data Science Intern

Jun 2022 – Jul 2022

Manus Bio Inc. Augusta, GA

• Aided computational biology team in parsing DNA fingerprinting data in Python and R, primarily for genetic trait improvement and novel genetic sequence detection to design commercial & industrial bio-alternatives

Projects

Financial Portfolio Analysis App | Python - Pandas, NumPy, SciPy

May 2024 - Present

- Leveraged NumPy and Pandas to create custom functions to perform a Time Series on given financial data
- Functionality included generating basic & annualized returns, basic & annualized volatility (Sharpe Ratio), drawdown's, skewness & kurtosis, VaR/CVaR

Full Stack E-Commerce Site with Intelligent Financial Analysis | Python, JavaScript, SQL Jun 2023 - Dec 2023

- Developed E-Commerce site using React.JS, Tailwind CSS, & Framer Motion for Frontend Development
- Implemented Backend functionality with Prisma ORM, PlanetScale to access our MySQL server, connecting everything to the **Stripe API**
- Leveraged Next.JS and Flask to integrate with Python classification algorithms built with SciKit Learn, NumPy, and **PyTorch** to generate future product recommendations
- Enhanced site administration for current 13 users of this E-Commerce platform, yielding an average 15% increase in per-product profit for all users

Technical Skills

Languages: Python, Java, SQL, JavaScript, R, C/C++, HTML/CSS

Tools: VSCode, MatLab, IntelliJ, Eclipse, RStudio, DBeaver, MongoDB, Prisma ORM, Tableau

Frameworks/Libraries: Pandas, NumPy, TensorFlow, PyTorch, ScikitLearn, Keras, React.JS, Next.JS, Node.JS, JavaFX

Education

University of Wisconsin - Madison

Sep 2022 - May 2026

BS Computer Science + Data Science, Minor: Economic Analytics

Madison, WI

- Concentration: Algorithmic Development and Mathematical Modeling for ML applications
- Relevant Course Topics:
 - Object Oriented Programming
- Data Structures + Algorithms
- Artificial Intelligence
- Modeling
- Computer Architecture

- Linear Algebra
- Discrete Math
- Data Systems
- Econometrics

Statistical

HCI

Extracurriculars / Certifications

CodeForGood Student Organization | Project Manager, Software Dev Lead, Marketing Chair

Dec 2023 - Present

• Leading Backend engineering responsibilities, utilizing SQL, MongoDB, Appwrite, and Zod, as well as aiding Frontend development of the organization's primary web page with React.JS, Node.JS, and Bootstrap

IBM Machine Learning with Python | SciPy, SciKit Learn

Apr 2024

• Implementing KNN, regression, and decision trees, and running comparisons of linear regression, multiclass prediction, and SVM models