Mehika Patel

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EDUCATION

Yale University, New Haven, CT   December 2022
Statistics & Data Science with Sociology, GPA: 3.82
Thesis: Natural Language Processing of breast cancer patient forums to provide experience-oriented approaches to care*
Relevant Coursework: Machine Learning, Probability Theory, Data Engineering, Information Systems
Awards: Mildred Priest Frank Memorial Prize for Thesis work*
Cohen Summer Fellowship awarded to fund data science research and data system development at nonprofit

PROFESSIONAL EXPERIENCE

Up & Up, *Data Science Intern*, New York, NY   May - Aug 2022
- Designed full data pipeline, ML model, and framework optimized to find high-potential neighborhoods for investment using similarity scores—automatically tuned per market (currently 3), will be used to launch future markets all around the US *(presentation available at mehika.upandup.co)*
- Facilitated transition to standard data engineering practices using DBT
- Built construction team's portion of company global dashboard with identified key performance metrics
- Supported property management team with helpful tools to facilitate their work *(route optimizer, dashboard filters)*

Detect, *Computer Science Intern,* Guilford, CT   Jan - May 2022
- Created data visualization tool for biotech R&D team to facilitate development of at home PCR-quality COVID-19 tests
- Engineered tool saves researchers ~20 minutes per test, with additional time costs for team saved by removing technical hurdles of manual coding analysis, visualization, and technical malfunctions

Self-Employed *Freelance Technical Instructor*   Jan 2022-Current
- Provide technical training *(coding, data science, ML)* to professionals at Fortune 500 companies such as Microsoft
- Instruct & individually and group tutor 20+ students of all ages *(9-52)* in math, statistics, coding, and data science

Yale Physics Department, *Machine Learning Fellow,* New Haven, CT   Jan - May 2022
- Tested & tweaked Baryon Pasting (BP) neural net model aimed to probe nature of dark matter in clusters 25k+ light years away
- Implemented UI on GCP to host BP model to advance understanding of universe with increased accessibility and model usage for scientists outside of Yale

Consumer Credit Counseling Services, Savannah, GA
Data Science & Data Systems Architect Fellow   Jun - Dec 2021, Jun - Aug 2020
- Automated reporting process with UI and dashboard with features such as survey management, data analysis, and up-to-date report generation on client feedback and outcomes for 500+ clients using google cloud technology
- Aggregated, filtered, and cleaned survey and administrative data and reported analysis on efficiency of company's debt-management services that clearly outlined key insights and solutions to drive improvements

Data 2 the People, *Data Science Fellow*, New Haven, CT   Jun - Aug 2021
- Delivered data-collection and analysis solution in 8 weeks for informed decision making for violence prevention program
- Developed web-based interactive data visualization to present urgent need for funding using D3.js

Metis, *Data Scientist*, New York, NY   Mar - July 2021
Accredited 14-week Data Science and Machine Learning immersive focused on data aggregating, wrangling, statistical modeling, supervised & unsupervised machine learning, deep learning, NLP, and data visualization.
- Most recent projects on my website

SKILLS AND INTERESTS

Languages: Python, SQL, JS, Rs
Technologies: MondoDB, Cloud Computing (GCP), PowerBI, Tableau, Web Scraping
Packages/Libraries/Frameworks: Pandas, Numpy, Scikit-learn, TensorFlow, Keras, DBT, React, Bokeh, Matplotlib
Interests: Music (Guitar & Dance), Martial Arts (Shotokan Karate)