

Mehika Patel

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EDUCATION

Yale University, New Haven, CT

Dec 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 Scientist (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), used for future market launches around the US (*presentation available at mehika.upandup.co*)
- Facilitated transition to standard data integration ETL practices using dbt
- Collaborated on building company global dashboard with construction team's 6 identified key performance metrics
- Supported property management team with helpful tools to facilitate workload (*route optimizer, dashboard filters*)

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 individuals and groups of 20+ students of all ages (9-52) in math, statistics, coding, data science, and ML

Detect, *Computer Science Intern*, Guilford, CT

Jan - May 2022

- Created data visualization tool for R&D team to facilitate development of at home PCR-quality COVID-19 tests
- Engineered tool saves researchers ~20 minutes per test and additional time lost to technical hurdles of manual coding analysis and technical malfunctions

Yale Physics Department, *Machine Learning Fellow*, New Haven, CT

Jan - May 2022

- Tested & improved 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, saving 30-40 minutes on average in package install time

Consumer Credit Counseling Services, Savannah, GA

Data Science & Data Systems Architect Fellow

Jun - Aug 2020, Jun - Dec 2021

- Automated reporting infrastructure 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 5 years of survey and administrative data and reported analysis on efficiency of business 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 stakeholder management
- Developed web-based interactive data visualization to present urgent need for funding using D3.js

Metis, *Data Scientist*, New York, NY

Mar - Jul 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

- Recent projects available on portfolio linked above

SKILLS AND INTERESTS

Languages: Python, SQL, JS, R

Technologies & Stats: MondoDB, Cloud Computing (Google Cloud), PowerBI, Tableau, Web Scraping, A/B Testing

Packages/Libraries/Frameworks: Pandas, Numpy, Scikit-learn, TensorFlow, Keras, dbt, React, Bokeh, Matplotlib

Interests: Music (Guitar & Dance), Martial Arts (Shotokan Karate)