Ankur Manikandan

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Experience

- **Data Scientist** — Nov. 2019 - Present
  Myna Mahila Foundation — *San Jose, CA*

  Leading and managing the product roadmap of the foundation's mobile health app.

  - Tracking KPIs via Python and Mixpanel to guide roadmap decisions.
  - Built an Android application to help women in the slum community, in India, to track and manage their menstrual hygiene.
  - Developed data pipelines to measure acquisition, engagement, and retention metrics.

- **Data Scientist** — May. 2017 - Jul. 2019
  Quantiply Corp. — *San Jose, CA*

  Managed a team of 3, and collaborated with product and engineering teams to define and build a large-scale AI-powered risk and compliance software product, Sensemaker, to tackle money laundering.

  - Full-Stack Data Scientist with experience leading and managing the delivery of projects in a timely manner, and experience in effectively translating business goals into analytical solutions.
  - Researched and developed neural network models, to identify suspicious financial activity. Reduced false positives (key business metric) by 30%.
  - Reduced the time taken for model selection by 80%-90%, by leading the development of an AutoML microservice.
  - Deployed models in production with a throughput of 83k records/sec. Developed the microservice using Docker, Tensorflow Serving, and Python.
  - Led the successful Proof-of-Value deployment of a customer attrition model at a large financial institution. Improved the precision (success criteria) of identifying highly frustrated, platinum-level customers by 80%.

- **Data Scientist** — Jul. 2016 - Mar. 2017
  Fathom AI — *Durham, NC*

  Led a team of 3 to develop the company's AI solution to prevent athletic injuries. Defined and built the product from inception to delivery.

  - Developed a regression model in Scikit-learn to determine energy exhausted by athletes. Model garnered interest from the sports medicine academic community.
  - Developed novel algorithms in Numpy to detect adverse body movements and a neural network model to recognize human activity.
  - Improved the data ingestion process and optimized Python code to process double the data in the same amount of time.
  - Led the design of experiments to study the causal effects of biomechanical movements on sensor data, and to examine the accuracy of the algorithms and models in identifying detrimental body movements.

Patents and Articles

- **Article**: "eXplainable AI (XAI) research must go beyond the four walls of research labs." Over 1,800+ views.
- **Patent Application**: "Customer Frustration Score Generation and Method for Using the Same." US 2020/0065835 A1. Filed June 2019. Pending.

Honors and Awards

- **Winner - Best Insights Category**, ASA DataFest — 2016
- **Full Scholarship - Summer Business School**, University of Chicago (Booth) — 2015

Skills

Machine Learning, Deep Learning, Python, Tensorflow, Tensorflow Serving, Flask, Docker, SQL, Git, REST APIs, Mixpanel

Education

- **Duke University** — Durham, USA
  Master of Engineering in Mechanical Engineering — *May 2016*