**Pima Indians Diabetes**

**Healthcare**

Area of Project

Exploratory Data Analysis

Brief Summary

Analyze the different aspects of Diabetes in the Pima Indians tribe.

Tools & Techniques used:

Python, EDA, Descriptive Statistics etc.

**Movies Recommendation System**

**Entertainment**

Area of Project

Recommendation Systems

Brief Summary

Build your own recommendation system that can recommend the best movies to a user like the one used by Netflix.

Tools & Techniques used:

Python, Content based algorithms, Collaborative Filtering, Popularity recommendations, etc.

**NYC Taxi Trips**

**Transportation**

Area of Project

Predictive Analytics

Brief Summary

To predict the trip duration of a new york taxi cab ride, build different types of features and evaluate them.

Tools & Techniques used:

Python, Regression, Feature Engineering, etc.

**Predicting Wages**

**Research**

Area of Project

Regression & Prediction

Brief Summary

Predict wages and assess predictive performance using various characteristics of workers.

Tools & Techniques used:

Python, Regression, etc.

**The Challenger Disaster**

**Space**

Area of Project

Classification and Hypothesis Testing

Brief Summary

Estimate the likelihood of failure of the equipment in a rocket post the launch.

Tools & Techniques used:

Python, Classification, Hypothesis testing, etc.

**Decision boundary of a deep neural network**

**Manufacturing**

Area of Project

Deep Learning

Brief Summary

Play with one or two layer perceptrons to assess their decision boundaries.

Tools & Techniques used:

Python, Neural Networks, etc.

**Identifying new Genes that cause Autism**

**Healthcare**

Area of Project

Networking and Graphical Models

Brief Summary

Use network-theoretic ideas to identify new candidate genes that might cause autism.

Tools & Techniques used:

Python, Networks, Graphical Models, etc.