

Ganesh Prasad

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Skills

- Python
- R
- SQL
- Java
- TensorFlow
- Tableau
- PySpark
- Statistics
- Econometrics
- Data Warehousing
- Data Mining
- Machine Learning
- Image Processing
- NLP

Research

Geospatial Partitioning Scheme for Hadoop

Devised a Hadoop partitioning methodology to perform point-in-polygon analysis on large datasets

Information visualization to assess diabetes risk | iHealth

Developed a visualization dashboard using dimensionality reduction to stratify risk of diabetes patients

Automation of radio diagnosis using SVM | IEEE Explorer

Developed a tool that detects cancer cells from MRI images using SVM

Notables

MC TakeInitiative | People's choice

Won the people's choice award in the TakeInitiative hackathon at Mastercard

Mastercard AI by Default Liaison

Co-lead for Mastercard's grass roots movement towards Artificial Intelligence

IBM Data Hackathon | 3rd place

Our analysis of 311 data to predict spike in call rate was awarded 3rd place

KB Entrepreneurship | 1st place

Our idea of "Food waste management platform" won the Keith Block contest

Education

Carnegie Mellon University

Master of Information Systems - Data Analytics | GPA: 3.6 Dec 2016

R V College of Engineering

Bachelor of Information Science & Engineering | GPA: 3.99 May 2014

Professional Experience

Mastercard | Data Scientist

Feb 2017-Present

Machine Learning Models

- Built recommendation engines for the city of Amsterdam and Prague to help the governments manage crowd for their festivals and events
- Developed risk models for 11 online loan lenders to predict merchant's risk of defaulting which is embedded in their loan approval processes
- Built time series forecasting models to forecast weekly and monthly merchant sales growth rate across US and UK

Data Science Platforms

- Led a team of 10 to build Mastercard's internal Machine Learning platform in Python and PySpark to consolidate our data science efforts
- Built a python utility to allow users to interact with Hadoop tools like Hive, Impala and Spark through simple python functions

Gridwise | Data Science Intern

Jun 2016-Aug 2016

Driver Location Optimizer

Developed a technique to identify hotspot clusters in a city based on event data to help Uber/Lyft drivers optimize their on-road time and efficiency

Cisco Systems | IT Engineer

Sep 2014-Jul 2015

Continuous Delivery

Served as SME for CI/CD project onboarding more than 60 teams

Test Automation Platform

Developed a platform that converts English statements into test-cases

Projects

Self-Driving Car Simulation

Developed an application on Unity that simulates a self-driving car

Distracted Driving Detection

Built an image classifier that classifies an image of a driver as safe/distracted

Restaurant Expansion Locator

Developed a system that suggests restaurant's next best expansion zip

Telemarketing Customer Churn

Developed a customer churn model that allows banks to target customers

Compliance Chatbot

Developed a chatbot to educate and answer questions on data compliance

Feature Extraction using NER

Worked on converting airplane data conversations to meaningful insights