

Ganesh Prasad



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Skills

- Python
- PySpark
- SQL
- Java
- TensorFlow
- Tableau
- R
- Statistics
- Data Analytics
- Data Engineering
- Machine Learning
- Deep Learning
- Image Processing
- Text Analytics

Research

Geospatial Partitioning for Hadoop

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

Patient Risk Visualization | iHealth

Developed a visualization technique using dimensionality reduction techniques to stratify patients based on their risk

Automation of Radio Diagnosis | IEEE

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

Notables

Mastercard AI Garage | Founding member

Responsible for setting up the AI center to make Mastercard an AI first company

Mastercard AI by Default Liaison

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

Mastercard Hackathon | People's choice

Won the people's choice award in the Mastercard hackathon for our chatbot

IBM Data Hackathon | 3rd Place

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

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 | Senior AI Specialist

Feb 2017 - Present

Extensive experience in end-to-end data science and machine learning projects starting from scoping business requirements, data engineering, feature engineering, model development & deployment

Machine Learning Projects

Small Business Decision Enhancer

Developed and deployed risk models for 11 online loan lenders to predict the risk of a merchant to default to a loan

Mastercard Travel Recommender

Built a recommendation engine to personalize experiences and provide relevant offers when a cardholder travels to a new city

HR Skills Topic Summarization

Built natural language processing module to analyze employee review data and tag them with relevant skills and discover new skills

Card Design Image Review

Built and deployed an image processing model to automatically classify valid card design patterns with 85% recall rate

Compliance Chatbot

Developed a compliance chatbot to provide an interactive interface to educate and answer questions to users about data compliance

Machine Learning Capabilities

Machine Learning Workbench

Led a team of 10 to build Mastercard's internal Machine Learning workbench POC that translates between Scikit, PySpark & Tensorflow

Hadoop ODBC

Built a python utility to allow users to interact with Hadoop tech stack like Hive, Impala and Spark that's used by more than 500 employees

Cisco | Software Engineer

Sep 2014 – Jul 2015

- Developed an internal CI/CD platform and served as Subject Matter Expert onboarding more than 60 internal teams onto the platform
- Developed a Java platform that converts English sentences into test cases on Selenium to help non-programmers write automated tests