

# RAMESH SAMPATH

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## EXPERIENCE

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**Insight Data Science**, *AI Fellow*, Palo Alto Mar 2017 - Current

- Built an Image Classification model for LillyApp, a Palo Alto based fashion startup, to automate the extraction of 20+ attributes
- Developed an API Endpoint that LilyApp services could query with an image and get the style attributes
- Applied transfer learning using VGG16 pre-trained models and augmented with open fashion datasets
- Identified improvements to style identification process to have a more consistent human labeled of images

**Code for America**, *Engineering Fellow*, San Francisco Dec 2016 - Feb 2017

- Studied the background check processes at California Department of Justice to identify automation workflows
- Collaborated with other fellows and DOJ partners in an Agile environment to create a series of technology recommendations

**Metis**, *Data Science Engineer*, San Francisco Apr 2016 - Nov 2016

- Taught and mentored students at Data Science Bootcamp
- Developed curriculum on building good coding practices and unit tests for machine learning projects
- Created templates to deploy Scikit-Learn models and deep learning Keras models using Flask on AWS

**Five Stars Loyalty**, *Data Analytics Engineer*, San Francisco Feb 2015 - Mar 2016

- Built an app using Python / Tornado framework and websockets protocol to facilitate real-time communication between customer facing devices and merchant devices at small business stores.
- Created visualizations using d3.js and Jupyter notebooks to analyze log files and identify app usage

**EngineRoom360.com**, *Technical Co-Founder*, Seattle, WA Sep 2013 - Dec 2014

- Founded a SaaS startup for online stores identify and promote products that get traction and clicks
- Deployed web apps on AWS as one click install for online stores that run on Shopify e-commerce platform
- Created Javascript plugins to record events when users visit or click on products in the store
- Participated at the 9MileLabs Accelerator program and TechStars Startup Next program

**S-Curve Decisions**, *Freelance Data Architect*, Austin, TX Dec 2010 - Aug 2013

**Clients:** Innovative Scheduling, UnderArmour, and Unilever Americas

- Led a five person team in building a BI system using MS SQL BI tools at Unilever
- Developed ETL processes to Integrate SAP and supply chain systems to enable planners to create forecast models
- Worked with e-commerce team to build e-mail marketing campaign for users based on purchase history
- Built data intake pipelines to process ticketing transaction files for a symphony pricing startup

## SKILLS

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**RECENT:** Deep Learning, Convolutional Neural Nets, PyTorch, Keras, TensorFlow

**EXPERIENCED:** Python, Machine Learning, Software Engineering, AWS, PostgreSQL, D3, Redis, Web Apps and APIs

## PROJECTS

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**ML Insights (Open Source ML Library), PyPi: ml-insights** Sep 2016 - Current

- Co-Developed an Open Source Machine Learning Library to ML Models. This package was released at MLConf SF 2016
- Created variable importance plots to measure how changes in feature values affect outcome in more complex ensemble models

## EDUCATION

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**The University of Texas, McCombs School of Business, Austin Texas**  
MBA General Management and Statistics 2010

**The University of Madras, Chennai, India**  
Bachelor of Science Electronics Engineering 1993