RAMESH SAMPATH

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EXPERIENCE

Lily, Fashion Startup, *Deep Learning Consultant*, Palo Alto   Jun 2017 - Current
- Built an image classification application using PyTorch for fashion images and deployed it as API Services
- Created an automated workflow to read hyper-parameters and architecture from a JSON configuration file
- Trained a single graph incrementally by adding fine-tune layers for various fashion attributes
- Created an image visual similarities Recommendation system using feature vectors of classification models

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

RECENT: Deep Learning, Convolutional Neural Nets, PyTorch, Keras, TensorFlow
EXPERIENCED: Python, Machine Learning, Software Engineering, AWS, PostgreSQL, D3, Redis, Web Apps and APIs

PROJECTS

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

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