Shouvik Mani

shouvikm@cmu.edu   (408) 216-3052

www.shouvikmani.me | GitHub

EDUCATION	**Carnegie Mellon University**	Pittsburgh, PA	2014 – 2018 • Major: Statistics and Machine Learning • Relevant Courses: Fundamentals of Programming and CS, Algorithms and Advanced Data Structures, Principles of Software Construction, Introduction to Machine Learning, Statistical Inference, Interactive Art and Computational Design, Data Visualization & Design, Machine Learning with Large Datasets (Fall 2016), Practical Data Science (Fall 2016) **Lynbrook High School**	San Jose, CA	2010 – 2014
SKILLS	Python	Java	R	C	HTML	CSS	JavaScript	Node	Angular	D3	Django	Tornado	SQL	Photoshop	Illustrator
WORK EXPERIENCE	**Salesforce**	Software Engineering Intern	San Francisco, CA	May 2016 – Present • Contributing core features to an open-source infrastructure data monitoring and visualization platform: o Anomaly Detection – Built a versatile anomaly detection framework in Java that identifies outliers in both seasonal and non-seasonal time series data through unsupervised machine learning techniques. Engineers can use this feature to receive alerts whenever anomalies arise in their infrastructure data. o Metric Search and Visualization – Developed a means for users to search for metrics available on the platform and visualize metric hierarchies. **CREATE Lab**	Technical Research Assistant	Carnegie Mellon University	Feb 2015 – Present • Working on software for the Speck Sensor, an indoor air quality monitor that is empowering people to understand and take control of their air quality • Used Javascript to develop a map-based visualization of air pollution in U.S. cities that pulls real-time data from federal air quality sensors (Link: git.io/vKwa8) **Palo Alto Networks**	Software Engineering Intern	Santa Clara, CA	May 2015 – August 2015 • Developed a bug tracking and analytics tool to replace an existing Bugzilla system and support engineers with real-time bug information, metrics, and visualizations • Implemented both the back-end and front-end of the internal web application using Python, Tornado, SQL, Redis, HTML, CSS, and Javascript **CK-12 Foundation**	Content Intern	Palo Alto, CA	June 2014 – August 2014 • Created interactive Flash-based modules to illustrate math and science concepts • Led an intern-driven marketing effort to reach out to teachers and school district officials
PROJECT EXPERIENCE	**Semi-Intelligent Image Classifier**	Link: youtu.be/YFS7H9gxW5A The Semi-Intelligent Image Classifier lets users train and test their own image classifiers using a simple web interface. The app brings the power of machine learning to the common man, letting them use a classification algorithm without having to write any code. **Predators of the Sky**	Link: git.io/vK2iw Predators of the Sky is a powerful data visualization that sheds light on the U.S. government's secretive drone program. It contains a map displaying 610 drone strikes in the Middle East and a grid of satellite images of the actual drone strike locations. **HubUp**	Link: hubup.herokuapp.com HubUp is a web application that allows users to create and discover public events.
EXTRA-CURRICULAR EXPERIENCE	**Moneythink CMU**	Carnegie Mellon University	September 2014 – December 2015 • Taught personal finance in Pittsburgh high schools to boost youth financial literacy • Led other mentors in planning and teaching engaging lessons as Mentor Captain