MEGHENDRA SINGH **MS-Computer Science**

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TECHNICAL SKILLS: Java, Python, C, C++, PHP, R, HTML5, CSS, JavaScript, REST, JSON, Shell, Oracle, MySQL, Linux, Machine Learning, Selenium, MATLAB.
TOOLS/APIs: Eclipse, Git, Scikit-learn, TensorFlow, Keras, PyCharm, Lucene, Android Studio, Android/Wear SDK.

EDUCATION:

Virginia Tech, Blacksburg, VA, United States Aug 2018 - Present
Master of Science (Computer Science & Applications) GPA - 3.85/4.0
Courses: Data Analytics, Theory of Algorithms, Software Engineering, Models of HCI

PROFESSIONAL EXPERIENCE:

Senior Software Engineer, TCS Innovation Labs, Pune, India May 2012 – Jun 2016
Worked as a JAVA developer and Data analyst.

Human Data Collection Platform (HDCP): Feb 2016 – Jun 2016
- Technologies Used: J2EE, REST, Linux, JSON, Android SDK, PostgreSQL, Geocoder and Google Maps APIs.
- Developed android apps and web services for collecting, visualizing and curating real-time sensor data from user's smart devices.

Social Sim Engine (SSE) Sept 2015 – Jan 2016
- Technologies Used: Java, Eclipse RCP, Hibernate, Spring, MySQL, Weka
- Developed workflows and dashboards for the SSE desktop application. Developed Eclipse RCP plugins for search, retrieval and parsing of regression models in SSE.

Human Centric Systems, TCS Innovation Labs, India May 2012 – Aug 2015
- Technologies Used: Java, Python, Pandas, scikit-learn, REST, JSON, Repast, Backbone.JS, NetLogo, GAMA
- Implemented various research projects like, Multi-Source Data Miner, EnterpriseSim and BehavCaster.

Team Lead, Tata Consultancy Services, Trivandrum, India Jan 2012 – May 2012
Conducted initial Research & Proof of Concept for projects along with software and architecture development.
- Lead a team of five, in a project involving design, development, testing and maintenance for an insurance services organization.

PROJECTS:

- **Forest Detector:** Developed a web service for classifying forest cover in aerial images of continental US using deep learning (Convolutional Neural Networks), using **Python, Pandas, Flask, TensorFlow, Keras.**
- **EpiViz.:** Designed and implemented an interactive framework for visualizing and tracking epidemic data, using **Python, Pandas, Plotly, Oracle DB, Linux**
- **Shot Predictor:** Developed an application for predicting vaccine adoption using classification algorithms like: **Decision trees, ANNs, Bagging** and **AdaBoost,** using **R, Shiny.**
- **ApartMates:** Web application to enable delegation and sharing of responsibilities and expenses in shared apartments, built using: **JavaEE**, **JSF**, **PrimeFaces**, **JPA**, **MySQL**, **HTML5**, **JavaScript**, **JAX-RS**.

ACHIEVEMENTS:

- Ranked in the top 10% in KDD Cup 2013, Microsoft Academic Search Author Disambiguation Challenge.
- Microsoft certified specialist: Programming in HTML5 with JavaScript and CSS3.
- Received TCS Star of the learner's group and Service and commitment awards for my contributions during various projects.
- Cerificates of accomplishment with distinction from Coursera.com in: Machine Learning, Core Concepts in Data Analysis and Startup Engineering.