

Gurpreet Singh Bhatia

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Linkedin

EDUCATION

- **University of Michigan** Ann Arbor, MI
Master of Science in Information, Specializing in Data Science May 2021
- **Guru Gobind Singh Indraprastha University** Delhi, India
Bachelor of Technology, Information Technology.; GPA: 3.76 July 2015

EXPERIENCE

- **Indraprastha Institute of Information Technology** Delhi, India
Research Associate Sep 2017 - Aug 2019
 - **Advanced Analytics for Social Media Analysis (AASMA):**
 - Key contributor to designing, developing, and maintaining large-scale data mining tool.
 - Scaled the project from 60 to 100+ organizations leading a team 5 developers. [Python, Rails, Apache Storm]
 - **Spam Campaign Characterization:**
 - Developed framework to detect and suspend spammers by analyzing over 23 million tweets using Random Forest.
 - **Digital Signals on Stack Overflow:**
 - Identified evidence of positive correlation between reputation scores and badges, and social attributes *Popularity* and *Impact* of Stack Overflow (SO) users.
 - Applied Gradient Tree Boosting Regression to model dataset of 3.8 Million users; $R^2(Popularity) = .956$ and $R^2(Impact) = .858$.
- **Sapient Consulting** Delhi, India
Associate Software Engineer L1 April 2016 - Jul 2017
 - **Data Integration Middleware Platform:**
 - Built Data Integration framework with Publisher / Subscriber format that provides a middleware platform for communication between proprietary systems.
 - Steered development of component for file format conversion using business logic.[IIB, Java Swing, PL/SQL]

PROJECTS

- **Honda CV Hackathon:** Developed application to detect parking spot on the road using Yolov3 and Darknet.
- **Headline influence on Stock Value of a company:** Emperical analysis showed that there is 7.4% chance for value change of more than 5% in Indian Market for year=2008. [Hadoop, PySpark, Spark SQL]
- **DeepTraffic:** Utilized Deep Reinforcement Learning to model a car that drives through virtual highway traffic.
- **Video Analysis:** Added support for Non-GPU servers to poll and execute video functionality on GPU servers in the network using RPyC.
- **Track On Twitter:** NodeJS application to track keywords on Twitter using Chrome notifications. Achieves Async I/O using Callbacks and Promises.

PUBLICATIONS

- “Signals Matter: Understanding Popularity and Impact of Users on Stack Overflow”, Short Paper, **The Web Conference 2019 (WWW)**, 20% acceptance. [Link]
- “Under the Shadow of Sunshine: Characterizing Spam Campaigns Abusing Phone Numbers Across Online Social Networks”, **Journal of Web Science 2019**.

SKILLS

- **Languages:** Python, Java, SQL, R, Ruby, Javascript **Tools:** Hadoop, Spark, Git, Docker
- **Machine Learning:** Keras, TensorFlow, Pandas **Frameworks:** NodeJs, Spring MVC, MongoDB

COURSES

- Computational Data Science and Machine Learning, Data Manipulation, Algorithms, Computer Networks, Operating Systems