

Mitesh Kumar Singh

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Education

MASTER OF SCIENCE | STATE UNIVERSITY OF NEW YORK AT STONY BROOK, USA | AUG'18 - DEC'19

Major in Computer Science focused on Machine Learning and Distributed Systems (CGPA: 3.7/4.0)

Courses - Machine Learning, Data Science Fundamentals, Computer Vision, Operating Systems, System Security

BACHELOR OF ENGINEERING | BIRLA INSTITUTE OF TECHNOLOGY, RANCHI, INDIA | JULY'11 - MAY'15

Major in Computer Science focused on Algorithms, Data Structures, and Compilers (CGPA: 8.56/10)

Technical Proficiencies

- *Programming Languages* Java, C, Python, Matlab, Bash, Javascript, and HTML
- *Machine Learning Frameworks* PyTorch, TensorFlow, ParlAI, OpenCV
- *Storage, Search and Pipelines* DB2, Oracle, Elasticsearch, Kafka (basic)
- *Frameworks and Libraries* Dropwizard, Jersey, Junit, Maven, Reladomo, Angularjs
- *Software Development Experiences* Domain Driven Design, TDD, Agile Development, Kernel Programming

Experience

ASSOCIATE | GOLDMAN SACHS, BENGALURU, INDIA | DEC'17 - JULY'18

- Full stack development in Java and Javascript, mentored 3 new hires and conducted 10+ technical trainings

ANALYST | GOLDMAN SACHS, BENGALURU, INDIA | JUN'15 - NOV'17

- Brainstormed & developed Goldman's Project Management and Technology Business Management (TBM) platform, used by senior leaders to analyze Goldman's yearly expense on technology

SOFTWARE DEVELOPER INTERN | MICROSOFT, HYDERABAD, INDIA | MAY'14 - JUN'14

- Developed a user interface and sync engine, which automatically synced music content between windows mobile and desktop music app, for an existing Windows Desktop Music App using WinJS, WRL C++ and HTML

Personal Projects

EDDIE: A KNOWLEDGE-BACKED DIALOG AGENT | JAN'19 - ONGOING

- Research project aimed at developing an intelligent dialog agent that can address the complex information needs of users through interactive and knowledge-backed dialog adapted to each individual user.
- I am currently working on developing it's question answering system using state of the art models (BERT, DrQA) on conversational datasets like CoQA and QuAC.

ACTIVITY RECOGNITION IN BIG BANG THEORY SCENES | SEP'18 - DEC'18

- Developed **multiple classifiers for hand, upper-body, scene and activity detection** in Big Bang Theory Video dataset using own implementation of Logistic Regression, SGD, Hard negative Mining SVM, K means clustering and existing CNN and RNN implementations (own architectures) in PyTorch.

Professional Projects

MANAGE PROJECTS YOUR WAY! | JUL'17 - JUL'18

- Designed the **app's entitlement, state machine** (50+ transitions) & rule validation engine from scratch
- Published project messages on Kafka and implemented actionable BPMN workflows

REPORT SCHEDULING AND EXECUTION FRAMEWORK | DEC'16 - MAR'17

- Designed **data models** and developed **RESTful** asynchronous web services using Jersey
- Implemented report execution (over DB2 engines), storage (ATMOS Object Storage) & transfer (ftp) in Java

WHAT'S YOUR ROI? | DEC'15 - DEC'16

- Instrumental in developing **microservices** for users to create, manage & analyze the cost and recovery of technology products like infrastructure, applications, projects, platforms and employees
- Built **UI visualizations** like heatmaps, graphs, **angular tree component** and highly-performant data grids
- Configured **Elasticsearch** clusters and **indices** with product data and wrote batch jobs to populate them

Hackathons

- Won the [Best ML Hack](#) at Hack@CEWIT and [Best Nutrition Hack](#) at HackHealth@SBU in Spring'19