

Rishabh Narang

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EDUCATION

Columbia University

M.S. in Computer Science, Machine Learning Track

New York, NY

Sep 2019 — Dec 2020

G.G.S Indraprastha University

B.Tech. in Information Technology , 3.85/4.0

New Delhi, IN

Aug 2014 — Jun 2018

TECHNICAL SKILLS

Python3, Java, HTML5, CSS3, Bootstrap, JavaScript, Flask, Django, NodeJS, AngularJS, MySQL, Git, Vim, Bash, Heroku, AWS, Google Cloud.

EXPERIENCE

Agent-Based Modeling Research Lab — Dr. Rinkaj Goyal

New Delhi, IN

Social Networks Research Assistant | *Tech Stack: Python3, NetworkX, iGraph, R* Sep 2016 — Jun 2019

- Investigated and showcased the mechanism of information/ message spreading in various Social Networks.
- Analyzed the role of macro-meso-micro indicators in Citation Networks using NetworkX, iGraph - Python3, R.
- Secured a grant of \$3k from the university for funding the research work.
- Published and presented the work on Social Networks and Complex Networks in journals and conferences.
- Automated the task of computation using Supervisord (Linux).

inVoid Technologies

New Delhi, IN

Computer Vision Engr | *Tech Stack: Python3, SK-Learn, OpenCV, Pandas, Flask* Jan 2019 — April 2019

- Programmed Computer Vision Models for the clients to run on lightest of the devices such as Raspberry Pi.
- Developed a video analytics library to provide customer demographics to our client through CCTV footages.
- Migrated the local server to AWS instances for global connectivity.
- Built document detection and OCR technology (using PyTesseract) with an improved accuracy of $\approx 93\%$.
- Worked on Computer Vision Data Pipelines for Data Collection and Cleaning.

Manav Rachna Innovation & Incubation Center

Haryana, IN

Software Developer | *Tech Stack: Python3, Django, NodeJS (Loopback), MySQL, R* May 2017 — May 2018

- Re-engineered the offline bus attendance system to an online software-based system.
- Developed a complete Full-Stack-Web Architecture for an automatic drink disposal machine.
- Designed a database schema along with an interface for IoT based automation product.
- Conducted a key-note speech on R-Programming with a batch size of ≈ 120 people.
- Mentored three interns for knowledge transfer to center's codebase.

PROJECTS

Criminal Activity Network Analysis

March 2019 — Present

- Studying various factors pertaining to the formation and activities of different terrorist organization networks.

Innovation Evolution using Influence Propagation Models in Social Network

Sep 2017 — May 2018

- Empirically analyzed the process of gossip evolution in a given network.

Customer buying patterns in Online Shopping

Jan 2018 — Jan 2018

- Analyzed the association rules in buying patterns using Pandas and SK-Learn (Scikit-learn).

AI-powered Facebook Bot

Jun 2017 — Aug 2017

- Developed a Facebook Messenger bot using NLP, Django, and Messenger API.

PUBLICATIONS

1. Narang, Rishabh, et al. "Impact of Reciprocity in Information Spreading Using Epidemic Model Variants." Information 9.6 (2018): 136.
2. Narang, Rishabh, Sanjay Misra, and Rinkaj Goyal. "An Empirical Study on the Role of Macro-Meso-Micro Measures in Citation Networks." International Conference on Computational Science and Its Applications. Springer, Cham, 2019.