Rishabh Narang

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EDUCATION

Columbia University   New York, NY
M.S. in Computer Science, Machine Learning Track   Sep 2019 — Dec 2020

G.G.S Indraprastha University   New Delhi, IN
B.Tech. in Information Technology , 3.85/4.0   Aug 2014 — Jun 2018

TECHNICAL SKILLS

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

EXPERIENCE

Agent-Based Modeling Research Lab — Dr. Rinkaj Goyal   New Delhi, IN
Research Assistant   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 in journals and conferences.
· Automated the task of computation using Supervisord (Linux).

inVoid Technologies   New Delhi, IN
Head Computer Vision Engineer   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   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 Propogation 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.