

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

SKILLS AND RELEVANT COURSEWORK

| | |
|--------------|-----------------------------------------------------------------------------------------|
| Languages | Python3, R, Java, C++, HTML5, CSS3, JavaScript |
| Libraries | Pandas, SK-Learn, NetworkX, iGraph, OpenCV, Keras, TensorFlow, H2O |
| Frameworks | Bootstrap, Flask, Django, NodeJS, AngularJS, ReactJS |
| Technologies | Git, Vim, Bash, Docker, Container, Heroku, AWS, Google Cloud |
| Database | MySQL, MongoDB |
| Coursework | Algorithms, Data Structures, Databases, Artificial Intelligence, NLP, Operating Systems |

EXPERIENCE

Agent-Based Modeling Research Lab — Dr. Rinkaj Goyal

New Delhi, IN

Social Networks Research Assistant

Sep 2016 — Jun 2019

- Investigated and showcased the **mechanism of message spreading** in various **Social Networks**
- Analyzed **macro-meso-micro indicators in Citation Networks** using NetworkX, iGraph - Python3, R
- Secured **\$ 3,000 grant** from the university for funding the research work
- **Reduced the computation time** of the designed algorithms from **96 hours to 8 hours**

inVoid Technologies

New Delhi, IN

Software Developer

Jan 2019 — Apr 2019

- Achieved **94% accuracy** on Indian faces and **saved ≈ 180 human hours** by building Facial Recognition model
- Migrated the local Flask server to **AWS instances (EC2)** for global connectivity
- Using Deeplearning (NLP) improved **document detection and OCR (PyTesseract) accuracy to $\approx 93\%$**
- Programmed image scraper (**Python3, Selenium**) to enhance the data analysis pipeline
- **Handled cloud server packet drops (from 70% to 1.5%)** using SupervisorD (Linux)

Manav Rachna Innovation & Incubation Center

Haryana, IN

Software Developer

May 2017 — May 2018

- Developed and deployed (**APIs**) for a software-based attendance system using **Django and MySQL**
- Developed **Full-Stack-Web Framework** for an automatic drink disposal machine (**NodeJS-Loopback**)
- Designed **interface along with API** for IoT based product and performed data analysis and prediction
- 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

Mar 2019 — Dec 2019

- Studied 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)

2048-The Game <https://the-game-2048.herokuapp.com/>

Jul 2017 — Jul 2017

- Developed and deployed a web-based version of a popular sliding block puzzle mobile game 2048

Tetris- The Game <https://tetris-the-game.herokuapp.com/>

Aug 2017 — Aug 2017

- Developed and deployed a web-based version of a popular tile-matching puzzle video game - Tetris

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.