



## Rishabh Anand

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### Profile

Machine Learning (ML) and Natural Language Processing (NLP) Engineer/ Researcher with 2 years of experience, journalist and article writer, student at National JC.

### Experience

#### **ML RESEARCHER, BIOINFORMATICS INSTITUTE, A\*STAR, SINGAPORE – 2018-PRESENT**

Used Machine Learning in Computational Virology to better estimate Free Energy changes that occur in viruses upon mutations in the Neuraminidase (NA) surface protein.

#### **NLP RESEARCHER, VOCQ TECHNOLOGIES – 2016-2018**

NLP modules at Vocq had a low accuracy in generalising to new user feedback outside the training data. I worked on the Neural Summariser that takes in raw user feedback as input and outputs a shorter summary that is being used in the Vocq Similarity Engine for further text processing. By doing so, I learnt how to work with multiple forms of input data and extracting key insights from them to deliver better-working modules.

#### **FRONTEND ENGINEER – 2015-2016**

Made User Interface prototypes and mock-ups that were demonstrated at Nanyang Technological University's NTUitive venture arm and MediaCorp that got us our initial round of funding from both organisations. Through this experience, I learnt more about rapid app development and quick prototyping in the startup space.

## Education

**National Junior College**, Singapore, 2018-Present

- GCE Advanced Level Certificate
- Physics, Computer Science, Mathematics, Economics, H3 Research in Computational Virology
- Outreach Officer of the Science and Technology club
- National JC Softball team

**NVIDIA DLI - Deeplearning.ai**, Singapore, 2017

- Neural Networks and Deep Learning course certificate (ID: KH5PEJM5BJ7T)
- Final grade of 92.9%

**St. Patrick's School**, Singapore - 2015-2017

- GCE Ordinary Level Certificate - L1R5 of 6 points
- Senior Vice Head Prefect of the Prefectorial Board
- Executive Committee member of the St. Patrick's Cricket team
- Senior FOX Sports certified Journalist
- Co-founder, St. Patrick's Chess Society

## Achievements and Awards

- Neural Networks and Deep Learning
- Google Code-in, 2017-2018
- Young Engineer Gold with Distinction, 2017
- Young Engineer Silver, 2016
- Tableau Data Analytics, 2016

## Skills

- **Machine Learning:** TensorFlow, Keras, TensorFlow.js, Basic PyTorch
- **Programming languages:** Python, Java, C, Swift, Basic Objective C
- **Web technologies:** HTML5, CSS3, JavaScript
- **Frameworks:** React Native, Electron, Node
- **Databases:** MySQL
- **UI/UX Design**

## Projects


### **MLBLOCKS ([MLBLOCKS.GITHUB.IO](https://mlblocks.github.io))**

Neural Network construction sandbox for beginners based on MIT's Scratch. Drag and drop approach to learning how to build different network architectures. Writes code for the architecture that can be run on browser, exported and saved.

## Publications

Medium Corporation publications in the **Towards Data Science** journal, **Sigmoid** journal, and **HackerNoon** magazine.

(<https://medium.com/@mail.rishabh.anand>):

- CatGAN: cat face generation using GANs
- Introducing TensorFlow.js 
- Google Code-in 2017-2018
- Modular programming with Keras
- Making a Replier and Follow Bot for Twitter using Node.js
- TensorFlow or TensorNo?
- What makes Open Source Software the new icing on the cake
- Programmers are stuck in a vicious cycle
- A sound footing in sone-shot SaaS environment
- Stay relevant in today's growing AI-centric corporate environment