



# Vicky Suman

April 6, 1992

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## </> Skills

Python ● ● ● ● ●

Java ● ● ● ● ●

R-Programming ● ● ● ● ●

Sql ● ● ● ● ●

Tableau ● ● ● ● ●

## Courses

- Regression Analysis
- Statistical Techniques in Data Mining
- Categorical Data Analysis
- Data Structures & Algorithms

## Awards

**Exceptional Performance and Commitment** towards work, **RMS 2019**

**All India Rank 60** in **IIT JAM 2015** MS exam

**Python, Gold** ● ● ● ● ●

**Problem Solving, Silver** ● ● ● ● ●

## Leadership Position

2016 – **Head of Logistic Team**, 36th  
2017 **Mathematics Olympiad**,  
**Mathematics Association**,  
**IITB**

2016 – **Key Member of Logistic Team**  
2015 **and Registration Team** of  
35th **Mathematics Olympiad**,  
**Mathematics Association**,  
**IITB**

## Working Experience

- October, 2020 – present **Modeler, Cyber Team** **Risk Management Solution, Noida**  
Currently working on Simulation of **Cyber Ecosystem** with statistical modeling
- \* Assisted in development **contagious malware worm simulations model**, analysis and tune the hyper-parameter by generating the experiment's by leveraging **MLflow platform**.
  - \* Developed **Cyber Risk IT Model's life cycle** (experimentation, reproducibility and central model registry) for model calibration and validation by using **MLflow**.
  - \* Developed **Linguistic rule by using dependence parser**, to find the type of incident then relation between the performs the action and receives the action from title of the given article.
  - \* Developed a **BERT based classifiers**, BERT is used for **transfer learning**. The standard BERT classification architecture and several other customized deep learning architectures are trained to compare with the **baseline bidirectional LSTM**.
- May, 2018 – October, 2020 **Senior Modeling Analyst, Cyber Team** **Risk Management Solution, Noida**  
Responsible for build a framework to automate **Cyber Incident Database** and analytic's report for **Cyber Risk Outlook**.
- \* Build **Cloud Outage Incident Database** for top four CSP, map the incident, product, services, data center, region into one schema and generate **analytical report**.
  - \* Build **Cloud Exposure Database**, which contain Revenue Generation, Market Share, Cloud Adoption Rate and Data Center Share.
  - \* **Clustering DDOS attacks** into similar groups, where the attacks have similar characteristics.
  - \* Leveraged the APIs framework to use **IBM-Watson Language Translation Service** incorporate in CID automate process.
  - \* Developed the **REST APIs** that offer text analysis through **Natural Language Processing** which help to understand cyber attack related text, entities. Usage of ML component across the teams and leverage the **models output**.
  - \* Developed the sentence classifier using **SpaCy Vectors Model** and **Support Vector Machine** to understand the natural language is relevant to cyber attack information or not.
  - \* Developed the cyber related entity extractor model by using **Conditional Random Field** and **Named Entity Recognition Model** of **SpaCy**, entities like an organization which impacted, the type of attack, magnitude loss of the attack, money related information, date, etc.
  - \* Developed a architecture for **extracting and curating articles text**, in different language's from the different open source's like media blog, RSS feeds, etc.
- June, 2017 – April, 2018 **Data Scientist Trainee** **Phenom People, Hyderabad**  
Concern project were **chat-bot and job search engine**.
- \* Developed a classifier using **Sentence Vectors** and **Support Vector Machine** to understand natural language for a job search engine.
  - \* Leveraged **NLU** in AI-chatbot for job search queries, FAQ's related to companies and chit-chat conversation.
  - \* Designing an **AI-chatbot personalised** for each user to provide with a **platform to find careers**.
  - \* Developed architecture for an AI-chatbot to **store unique user information** based on the browser history.
  - \* Developed the **REST API of ML models** for the chat-bot and deployed the ML models in **production environment**.
  - \* Leverage the **RASA Stack and DialogFlow** to build the chat-bot implementation.

## Education

2015 – 2017 **M.Sc. Applied Statistics and Informatics** **Indian Institute of Technology Bombay**

2012 – 2015 **B.Sc.(Hons) Statistics** **P.G. D.A.V. College, University of Delhi**