

Vicky Suman

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Professional Experience

Oct 2020 – **Modeler, Cyber Team**, RISK MANAGEMENT SOLUTION, Noida.

Present Currently working on Simulation of **Cyber Ecosystem** with statistical modeling.

- 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 the 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 – **Senior Modeling Analyst, Cyber Team**, RISK MANAGEMENT SOLUTION, Noida.

October 2020 In RMS my concern project was to build a process to automate **Cyber Incident Database** and analytic's report for **Cyber Risk Outlook**.

- Build **Cloud Exposure Database**, which contain Revenue Generation, Market Share, Cloud Adoption Rate and Data Center Share.
- Build **Cloud Outage Incident Database** for top four CSP, map the incident, product, services, data center ,region into one schema and generate **analytical report**.
- **Cluster 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 APIs that offer text analysis through **Natural Language Processing** which help to understand cyber attack related text, entities and keywords.
- 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 entities 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 – **Data Scientist Trainee**, PHENOM PEOPLE, Hyderabad.

April 2018 In Phenom, my 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.
- Assisted in development of recommendation engine to come up with most relevant job profile for a particular user based on the user's browsing history and AI-chatbot based user interaction.

- 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 architecture to store entire user conversation based on session-ID and unique user-ID for understanding user experience (UX).

Education Qualification

Qualification	College/ University	Year
M.Sc. Applied Statistics and Informatics	Indian Institute of Technology Bombay	2017
B.Sc.(Hons) Statistics	P.G. D.A.V. College,University Of Delhi	2015

Academic Project

- M.Sc. **Analysis of Optimization in Finance**, GUIDE PROF. ASHISH DAS.
 Project – **Objective:** To have some basic ideas in finance involving statistical concepts and to analyze data on shares of different stocks to get an understanding of option and portfolio optimization.
 April 2017
- Course **Statistical Analysis of Relation of Accidents in India with Education Qualification of Drivers Involved**, GUIDE PROF. S. MUKHOPADHYAY.
 Project – **Objective:** Fitted a 2-way ANOVA model to test whether there's a significant difference in the number of accidents between the 6 groups of states and 3 categories of educational qualification of the drivers and any significant interaction between the two.
 April 2016

Position Of Responsibility

- August 2016 **Head of the Logistic Team of 36th Mathematics Olympiad.**
 – January 2017 **Organized by Mathematics Association, IIT Bombay.**
- Lead a team of 30 members and gave logistic support to 7 other teams in managing **1300 plus** students and their parents during the event.
 - Was a member of the Logistic Team and also worked for the Registration Team of **35th Mathematics Olympiad** organized by **Mathematics Association, IIT Bombay.**

Technical Skills

- Programming languages PYTHON, JAVA,SQL, R-PROGRAMMING, C, C++
- Statistical software R-STUDIO, SPSS, MONGO DB (Basic proficiency)

Professional Activites

- 2019 Best Excellent Team award

Extracurricular Activites

- 2016 Represented the Mathematics Department in the PG Sport in Basket Ball, Cricket and Kho-Kho.
- 2015 Won Second prize in Dramatics in PG Cultural Festival in IIT Bombay.