

Rajanikant Tenguria

SENIOR DATA ANALYST · SECURITY ANALYST

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"Persistence is all you need."

Work Experience

Capgemini

Pune & Mumbai

SENIOR DATA ANALYST

Feb 2018 - Present

- Conceived, developed & lead to create an internal automated tool which is estimated to save over **200+** hours for entire Business Unit weekly.
- While working as a Junior Solution Architect, helped design solutions for various environments. Received '**Pat on the Back**' Award for excellent delivery of this service from Senior Manager.
- Developed scripts for quality control and summary reports of data. In addition, I created scripts to scrape data from **14 sites** to extract updated entities & accumulate them into a single sheet, increasing efficiency by **47%**.
- Received praise from the **Program Manager**. I reported for an entire month without leaves and helped complete a strict deadline project with utmost accuracy. I helped in creating Business dashboards for our bank clients. In this process, I scraped through **1500** page document to extract relevant information. Leveraged AWS services such as **S3, EC2, AWS Inspector & EMR** while working on various POC's & created Monthly report from the AWS document.
- I worked on finding critical & high threats and notify & advise the security team to take relevant action. I create **Weekly, Bi-Monthly & Monthly** reports based on our current status and future action plan.
- I have heavily worked on **Splunk** generating insights, creating various business security alerts and streamlining data pipeline so as to match our daily needs. Additionally, I have developed **VBA scripts** to extract report and generate insights from monthly Nessus scan. I have created Remediation tracker to get a better overview of patching status.
- **Threat Intelligence Service**: I have helped in setting up & integrating **MISP** to get data integration and faster sharing of IOC's & relevant data. Additionally, I helped create various business use-cases leveraging **Recorded Future** services.
- Taught and implemented various programs on **Arduino** boards to underprivileged school students in **Capgemini's adopted schools**.

Bhabha Atomic Research Centre

Mumbai

SUMMER RESEARCH INTERN

Jun 2016 - Jul 2016

- Signed an NDA. However, most of my work here revolved around creating low resistance high accuracy circuit that functions as one of the alarm mechanism in case of emergencies with the **Dhruva** Research Reactor team.
- Visited **CIRUS** to understand the legacy and working of older reactors. This showed the advancements in reactor technology over the time.

Projects

Data Science / Machine Learning

SOLO

- **Help Navigate Robots : Top 2 %** in competitors. Data contains a robot traversing on 9 different surfaces. I joined similar entries to get better insights about the surfaces. Later used **Random Forest & LGBM** to correctly predict one of the nine floor types.
- **Elo Merchant Category Recommendation : Top 8 %** in competitors. Based on historical financial transactions as well as various present we have predict a consumer's Loyalty. I used an ensemble of **3 different** models based on **Xgboost & LGBM**.
- **PUBG Finish Placement Prediction : Top 10 %** in competitors. PUBG is an extremely famous and trending game. Based on various in game parameters our task was to predict the final position of player(out of 100). Developed a **Tensorflow** model to efficiently tackle the problem.
- **Toxic Comment Classification Challenge** : Based on 160k+ comments, we had to classify comments in 8 categories present. Learned extensively from other grandmasters as this was my first text-based competition. Implemented an LSTM model with a competition score of 0.987.
- **Freesound Audio Tagging 2019** : We had to classify audio data into 80 categories. Learned new ways to classify audio data. Implemented a CNN based classifier to get a competition score of 0.67. Got ideas to implement an voice cloning software.
- **Partial Amazon GO Clone** : Gathered own data by clicking shelf images from supermarket. Developed a program to replicate the shelf part of Amazon GO and create bounding boxes where products were missing on the shelf.
- **#Article370** : When Indian Government scraped Article370, there was a lot of backlash on Twitter. Using Twitter API, I gathered related tweets to those events, later I scraped the hashtags present in scraped tweets cumulating over 100k tweets. I then analyzed tweets and segregating them on basis of content. Similarly, I gathered data about the tweet's user and their connecting accounts.
- **Kaggle Scraper** : In process to scrape entire Kaggle website consisting of approx **2000** sub - webpages and creating a metadata for entire Data Science community to use. Here I am using **Selenium, BeautifulSoup & Scrapy**.
- **Scraped YouTube & Slack channel of CareerCon 2019** : Automated a python script to capture images from YouTube stream at regular intervals. The images are cropped accordingly and then optimized to extract comments along with time, likes, dislikes & the commenter's name from Live YouTube stream. On Slack, participants have introduced themselves in Intro channel and this plain text data amounted to over **200k words**. This data contains valuable information such as University Name, Location, Current Educational Status & Major Stream, Job Status, LinkedIn Profile & Experience level. All the data is then parsed, cleaned & extracted into various categories. Later this data is compiled in a dataset.
- **Extensive IMDB Scraper** : General scrapers only tend to extract at max **25** features about a movie. The movie page have many links which correspond to additional features. I have leveraged this information and extracted around **90 compared to 25** features.
- **Goodreads Scraper** : Being an avid reader, it helps to have an list of books by genres and ratings. However, none of the datasets present online had the exhaustive list of books along with the desired features. I scraped the largest list present on Goodreads having more than 20 features.

Object Detection Using CNN

Machine Learning & Robotics

TEAM LEADER

Sep 16 - Mar 17

- Created a real-time system which detected various objects in a given live video feed with the help of YOLO Framework with varying levels of object confidence.
- Live video feed was wirelessly transferred to our computing machine from a camera set on a Quad copter via Raspberry Pi 2.
- Innovative Project Award in Annual College Project Exhibition.
- 1 of the 3** teams to receive entire project funding (*out of 168 teams*).

Image Processing / ML / Robotics

SOLO

- Electric Meter OCR** : A camera is setup in front of all the Electricity meters. The image is then split in various sections according to respective owners. Later image processing is performed to make images clearer for the machine to read. Once contrast levels are optimum, pytesseract module is used to extract text from images.
- Smart Tic-Tac-Toe Robot** : OpenCV was used to identify the current position on board and was used to calculate the next move. Designed and implemented a Robotic Arm which could identify, grab and place the surrounding object with utmost accuracy and care. This arm would then place the piece at the most appropriate position.

Cargo Alignment Robot

Robotics

TEAM LEADER

Sept 14 - Mar 15

- Most Innovative Idea** of e-Yantra 2014-15, **Highest Preliminary** Round Points. Robot traversing time reduced by **40%**.
- Project involved designing a solution to arrange packages in time, space & rule-constrained manner.
- We created a real - time robotic system with the help of Sharp sensors, Servo motors, Short range IR sensors, Position Encoded DC Motors, White-Line sensors along with 8051 and Atmega 2560 to implement a scenario similar to Cargo-Alignment in warehouses.
- Found an efficient & fast way to detect, traverse and if need arises arrange the packages in the correct manner.

C For U

Android

CO - FOUNDER

Mar 14 - Sept 14

- Built an Android app compiling over 500+ C programs. Received great response from students and learners worldwide.
- Installed over by **60000+** users with an average rating of **4.4** from **326** reviews.

Achievements

2019	29th/1449 - Top 2% , CareerCon 2019, Kaggle	International
2018	Top 10% , Kaggle - 3 out of 4 competitions	International
2018	98+ Percentile , GATE (<i>M Tech Qualifier</i>)	India
2016	294th/165000+ , TCS Codevita	India
2016	Top 3 / 192 , Shortlisted for IIT B RESEARCH INTERNSHIP AWARDS	IIT Bombay
2015	4th/3107 , e-Yantra Robotics Competition	IIT Bombay
2015	68th/2477 , IEEE Xtreme 9.0 - 24hr Coding Contest	International
2014	Dale Carnegie , Winning People With Professionalism	Mumbai
2013	Finalist , National Mathematics & Science Olympiads	India
2011	3rd/200 , INDIPEX-2011, Awarded by Indian President Pratibha Devi Singh Patil	New Delhi

Education

Vidyalankar Institute Of Technology

7.0

B.E. IN ELECTRONICS & TELECOMMUNICATION ENGINEERING

June 2013 - May 2017

Birla College of Arts, Science and Commerce

73.83 %

HIGHER SECONDARY

June 2011 - May 2013

Guru Nanak English High School

96.36 %

SECONDARY

May 2011

Presentations & Co-curriculars

6th International IEEE ICCSP Conference

Chennai

PRESENTER

Apr. 2017

- Rajanikant Tenguria** ; Saurabh Parkhedkar ; Nilesh Modak ; Rishikesh Madan ; Ankita Tondwalkar, "**Design framework for general purpose object recognition on a robotic platform**", 2017, IEEE DOI : 10.1109/ICCSP.2017.8286790 , Electronic ISBN : 978-1-5090-3800-8

Co-curriculars

Vidyalankar College

TEAM EVENTS

2013 -17

- ETSA Technical Head** - Hosted 17 academic, technical & industrial events throughout the academic year with a team of **20+** students. Addressed a crowd of **150+** students and had a workshop based on e-Yantra Robotic Competition.
- IEEE VIT** - Was a member of Team Management & Sponsorship Team in 2nd year. Increased membership by more than **300%** (from 20 to 70).
- Chess Team** - Was Chess Co-Head in 3rd year. Won 1 Gold & 2 Bronze medals.