Parth Nagarkar

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EDUCATION

Thadomal Shahani College of Engineering, Mumbai, India **Expected: May 2021**
Candidate for Bachelor of Computer Engineering with *Distinction* **(CGPA: 8.81/10)**
Relevant Coursework: Big Data Analytics, Data Warehousing and Mining, Machine Learning, Database Management Systems, Analysis of Algorithms, Advanced Algorithms, Data Structures.

Thakur Polytechnic, Maharashtra State Board of Technical Education, India **May 2018**
Diploma in Computer Engineering with *Distinction* **(88.31%)**

PROFESSIONAL EXPERIENCE

TryCatch Group, Mumbai, India *Machine Learning Intern* **Aug 2019 - Present**

Malicious URL detection using Machine Learning

- Developed scripts to scrape a given website and return a list of malicious URLs to ensure the security of a website.
- Employed Phishtank dataset containing malicious and benevolent URLs to generate various URL-based, domain-based, page-based features and trained a Random Forest classifier on generated features to predict a URL as malicious or benevolent.
- Designed a multi-threaded web crawler to scrape a website and collect the URLs present on that website.
- Implemented libraries such as Numpy, Pandas, sklearn and Flask framework for integration with Amazon S3 services.

Enhanced CCTV security using Deep Learning

- Creating a system to detect custom objects from live CCTV feed to analyze the object data for security purposes.
- Incorporated YOLOv3 object detection algorithm to train a custom dataset containing images of malicious objects such as knives, guns, and axes from live CCTV feed.
- Deploying the model on cloud to stream the live CCTV feed and run the model around the clock.

Hiranandani Group of Companies, Mumbai, India *Data Science Intern* **December 2019 - January 2020**

- Engineered scripts to scrape data from Twitter and classify users based on location, engagement and preferences to target them through marketing campaigns.
- Wrote scripts in Python to extract tweets from Twitter having specific keywords pertaining to the real estate sector with usernames of both who posted and engaged in those tweets.
- Refined the usernames by eliminating business accounts and developed scripts to scrape the user's profile to further shortlist a qualified list of users to send targeted advertisements.

Larsen & Toubro InfoTech Pvt. Ltd *Trainee* **May 2017 - June 2017**

- Completed an Industrial Training program organized by Larsen & Toubro on .NET, Soft Skills and Life Skills for Engineers.

PROJECTS AND PAPERS

- **Social Media Intelligence for Brand Analysis (In Progress)**
  - Devised a social media intelligence tool to stream tweets pertaining to a certain brand in real time.
  - Engineered scripts to perform text preprocessing and programmed functionalities such as Sentiment Analysis, Named Entity Recognition by training machine learning models to comprehend customer's perceptions about the brand.
  - Integrated user interface to display analytical graphs representing Sentiment Analysis, Named entity recognition, location of tweets, etc.
  - Technologies used: Python, Flask, HTML, CSS, Data Engineering, Data Preparation, Exploratory Data Analysis, Machine Learning, Model Tuning and Twitter API.

- **Nagarkar, P., Khan, A., Raikar, S., & Zantye, A. (2020, July). Twitter Data Mining for Targeted Marketing. In *2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA)* (pp. 44-50). IEEE.**

- **Nagarkar, P., Dambe, S., Mungekar, L., & Raut, S. (2018). Security system based on sclera recognition. *International Research Journal of Engineering and Technology (IRJET) e-ISSN*, 2395-0056.**

SOFTWARE SKILLS

- Programming Languages: Python, C.
- Database: MySQL.
- Web Technologies: HTML, CSS, Flask.
- Development Tools & Productivity: VSCode, Git.
- Platform: UNIX, Windows.
- Other Skills: Selenium.

EXTRA CURRICULAR ACTIVITIES

- Attended workshops on Ethical Hacking, Entrepreneurship, Flask development and Arduino during 2018-20.
- Won the third prize at Technofest, a state level project competition organized by Thakur Polytechnic in 2018.
- Participated in multiple inter-college and state level hackathons. Qualified as a finalist at Smart India Hackathon, 2018.
- Delivered speeches and evaluated other member's speeches and organized multiple district level speech contests as a member of Toastmasters club in 2020.