

# Parth Nagarkar

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## EDUCATION

<b>Thadomal Shahani College of Engineering, Mumbai, India</b> Candidate for Bachelor of Computer Engineering with <i>Distinction</i> Relevant Coursework: Big Data Analytics, Data Warehousing and Mining, Machine Learning, Database Management Systems, Analysis of Algorithms, Advanced Algorithms, Data Structures.	<b>Expected: May 2021</b> <b>(CGPA: 8.81/10)</b>
<b>Thakur Polytechnic, Maharashtra State Board of Technical Education, India</b> Diploma in Computer Engineering with <i>Distinction</i>	<b>May 2018</b> <b>(88.31%)</b>

## PROFESSIONAL EXPERIENCE

<b>TryCatch Group, Mumbai, India</b> <b>Malicious URL detection using Machine Learning</b> <ul style="list-style-type: none"><li>Developed scripts to scrape a given website and return a list of malicious URLs to ensure the security of a website.</li><li>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.</li><li>Designed a multi-threaded web crawler to scrape a website and collect the URLs present on that website.</li><li>Implemented libraries such as Numpy, Pandas, sklearn and Flask framework for integration with Amazon S3 services.</li></ul> <b>Enhanced CCTV security using Deep Learning</b> <ul style="list-style-type: none"><li>Creating a system to detect custom objects from live CCTV feed to analyze the object data for security purposes.</li><li>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.</li><li>Deploying the model on cloud to stream the live CCTV feed and run the model around the clock.</li></ul>	<i>Machine Learning Intern</i> <b>Aug 2019 - Present</b>
<b>Hiranandani Group of Companies, Mumbai, India</b> <ul style="list-style-type: none"><li>Engineered scripts to scrape data from Twitter and classify users based on location, engagement and preferences to target them through marketing campaigns.</li><li>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.</li><li>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.</li></ul>	<i>Data Science Intern</i> <b>December 2019 - January 2020</b>
<b>Larsen &amp; Toubro InfoTech Pvt. Ltd</b> <ul style="list-style-type: none"><li>Completed an Industrial Training program organized by Larsen &amp; Toubro on .NET, Soft Skills and Life Skills for Engineers.</li></ul>	<i>Trainee</i> <b>May 2017 - June 2017</b>

## 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

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