

Parth Nagarkar

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EDUCATION

Thadomal Shahani College of Engineering, Mumbai, India	Expected: May 2021
Candidate for Bachelor of Computer Engineering with <i>Distinction</i>	(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 <i>Distinction</i>	(88.31%)

PROFESSIONAL EXPERIENCE

TryCatch Group, Mumbai, India	<i>Machine Learning Intern</i>	Aug 2019 - Present
Malicious URL detection using Machine Learning		
<ul style="list-style-type: none">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		
<ul style="list-style-type: none">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	<i>Data Science Intern</i>	December 2019 - January 2020
<ul style="list-style-type: none">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	<i>Trainee</i>	May 2017 - June 2017
<ul style="list-style-type: none">Completed an Industrial Training program organized by Larsen & Toubro on .NET, Soft Skills and Life Skills for Engineers.		

PROJECTS AND PAPERS

Twitter Data Mining for Targeted Marketing	
<ul style="list-style-type: none">Developed a script in Python to scrape profiles from a list of users to search and retrieve phone numbers and email addresses updated by the users at Hiranandani Group of Companies.Authored and published a technical paper on the same in the IEEE International Conference on Inventive Research in Computing Applications in 2020. ISBN: 978-1-7281-5374-2Technologies used: Twitter API and Exploratory Data Analysis.	
Social Media Intelligence for Brand Analysis (In Progress)	
<ul style="list-style-type: none">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.	
Security System Based on Sclera Recognition	
<ul style="list-style-type: none">Authored and published a paper on the same in the International Research Journal of Engineering and Technology in 2018. ISSN 2395-0056. Volume 5, Issue 1.	

SOFTWARE SKILLS

<ul style="list-style-type: none">Programming Languages: Python, C.Database: MySQL.Web Technologies: HTML, CSS, Flask.	<ul style="list-style-type: none">Development Tools & Productivity: VSCode, Git.Platform: UNIX, Windows.Other Skills: Selenium.
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EXTRA CURRICULAR ACTIVITIES

<ul style="list-style-type: none">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.	
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