

SPARSH NAGPAL

Computer Engineering Student | BE - 4th Year



A self-motivated Computer Engineering undergraduate student with an advanced analytical & creative mindset having a strong link in theoretical and practical approach gained from my courses, research and internship experiences. Along with proficient technical skills, I also possess excellent leadership and management qualities making me a quintessential candidate.

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Qualification	University/School	Year of Passing	%/CGPA
B.E. (Computer Engineering) - University of Mumbai	Thadomal Shahani Engineering College, Mumbai	2022 (Expected)	8.83/10 (5 semesters aggregate)
12 th (Non-medical Science) – HSC	Pace Junior College, Powai, Mumbai	2018	83.69%
10 th – ICSE	Pawar Public School, Chandivali, Mumbai	2016	95.17%

Work Experience		
FRIENDS FOR INCLUSION, REMOTE	NLP And Deep Learning Intern	Mar '21 – Present
<ul style="list-style-type: none">Modelled grammatical translator of India's first efficient Indian sign language interpreter.Enhanced the model efficacy from 60% understandability to over 90% by implementing various NLP libraries like Spacy & NLTK.Ideated and working upon the Text Simplification model using state-of-art encoder architecture.Managing an intern over Convolutional Neural Networks based Sign Language to text model.Tested model on AWS Lambda serverless service.		
SPARKS FOUNDATION, REMOTE	Computer Vision and IoT Intern	Mar '21 – Apr '21
<ul style="list-style-type: none">Consummated sundry task-operated assignmentsImage colors identification using K-means clustering algorithm implemented on images of cricket jerseysThe tasks also included reviewing peer assignments and verifying algorithmic approach.		
PIANALYTIX, REMOTE	Machine Learning Research Intern	Nov '20 – DEC '20
<ul style="list-style-type: none">Scripted four detailed technical articles based on topics including Decision Tree Algorithm, OpenCV library, Autocorrection algorithm and Text Summarization modelAll articles were published in the official website on the Pianalytix website.		
SPARKS FOUNDATION, REMOTE	Data Science Intern	Oct '20 – Nov '20
<ul style="list-style-type: none">Consummated sundry task-operated assignments.The projects included business expenditure data analysis, a flower type relegation system predicated on petal dimensions utilizing a Decision tree algorithm, and a supervised ML predictive model		
ARGYLE HR SOLUTIONS PVT LTD., Mumbai	Business Development Intern	Jun '19 – Jul '19
<ul style="list-style-type: none">Managed and fine-tuned the company's official websiteInteracted with over potential 100 clients for the ongoing projectsProject data management and filtering		

Projects	
Music Genre Classification Using Machine Learning Models	Machine Learning Models, Python, Flask, HTML, CSS
A comparative study of seven Machine Learning Algorithms, K Nearest Neighbours , five ensemble algorithms and Logistic Regression on Musical dataset GTZan to classify various forms of genres based on 55 musical features. The best model received an accuracy of 84% .	
Online KYC Verification System	CNN, Image Processing, ML Models, Flask, HTML, CSS, JS
An online KVV portal with 5 steps verification which analysis IDs like Aadhar card and Pan card. It includes Image Detection using CNN on VGG-16 transfer learning model, Siamese similarity for signature comparison, OTP verification system, OCR document authentication.	
'AmazKart' E-commerce Aggregator with WhatsApp Automation	Selenium Automation, Python
A Python selenium-based aggregator program which on inputting the name of required product program performs automated search and shows comparative best search results from both Amazon and Flipkart . It provides automated WhatsApp detail transfer option.	
Personalized Streaming List maintainer with User Authentication	HTML, CSS, JS, PHP, MySQL
The web application helps user create a personalized movie watchlist by performing CRUD operations from the movie database and personal selected list. The operations took place real-time which required AJAX integration.	
A Movie Booking System	Java
A movie booking system where the user can select certain seats once from the given matrix allotted for each specific show.	

Research Papers
Musical Genre Classification comparative study on various ML models - Published at 2021 International Journal for Research in Applied Science and Engineering Technology (IJRASET)
Indian Sign Language Translation Model for Virtual Interpretation - Accepted at ICISE010 2021: XV. International Conference on Inclusive and Special Education.

Skills	
Python (Proficient), Selenium Automation, Flask Backend-Connectivity	Machine Learning, Deep Learning (NN, CNN, RNN), TensorFlow, OpenCV, Keras
Natural Language Processing	HTML, CSS, Bootstrap, JavaScript, XML
SQL, PHP, Data warehousing	Basics of Java, C, C++

Courses			
Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning	Coursera	Natural Language Processing in Vectorized Models	Coursera
Convolutional Neural Networks in Python	Udemy	Automate the Boring Stuff using Python -	Udemy
Image Classification with CNNs using Keras	Coursera	HTML, CSS, and JavaScript for Web Developers	Coursera
Building Basic General Adversarial Networks	Coursera	Using Python to Access Web Data	Coursera
PHP Tutorial Course	SoloLearn	Deep Learning Specialization [Audit Course]	Coursera
Natural Language Processing Specialization [Audit Course]	Coursera	Convolutional Neural Networks in TensorFlow [Audit Course]	Coursera

Co-Curricular & Extra-Curricular Activities	
Social	<ul style="list-style-type: none">- Rotaract Club of Bombay Powai – President (2021- Present)<ul style="list-style-type: none">– Community Service Director & Sergeant at Arms (2020-21)– General Body Member (2019-20)
Technical	<ul style="list-style-type: none">- Jr. Committee Member at the TSEC CodeCell (2019-20)- Organized College’s biggest hackathon ‘TSEC Hacks’ at CodeCell with 700+ participants (2020)- Participated in Delloite Technology Consulting Virtual internship (2020)- Participated in various Hackathons like DJ Sanghvi’s CodeIT Hackathon (2020) and TSEC Hacks Hackathon (2021)- Participated in Global Level Programming Contest – Heisenbug (2020)
Achievements	<ul style="list-style-type: none">- International Mathematics Olympiad Silver medalist at school and Jr. college level- Received Special merit awards for securing school highest in 10th board in Computers and Social Studies- First Prize at Contingent Fashion Show Competition (SNDT college) and Second Prize at National College- Outstanding Member of the Year Award - Rotaract Club of Bombay Powai (2019-20)
Hobbies	<ul style="list-style-type: none">- Playing Cricket, Table Tennis, Squash, Chess, Sketching, Painting, Travelling, Baking, Poetry