

# Sankalp Arora

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## EDUCATION

**NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA**  
B.TECH IN ELECTRICAL ENGINEERING  
(PURSUING) | 2018 - 2022

July 2022 | Harayana, India  
Cum. GPA: 9.2 / 10.0  
Highest SGPA: 9.83 / 10.0

**CHILDREN SENIOR SEC SCHOOL**  
HIGH SCHOOL EDUCATION | PCM  
May 2018 | CBSE Board | Kota, IN  
High School Topper  
Board Percentage: 95.4%

## SKILLS

### PROGRAMMING

Experienced: Python 3 • C++  
Intermediate: MySQL •  $\text{\LaTeX}$  • HTML  
Familiar: Matlab • SQLite • Agile(Scrum)

### LIBRARIES AND FRAMEWORKS

TensorFlow • Stable Baselines • Acme  
• Scikit-learn • Numpy • Keras • NLTK  
• Selenium • Matplotlib • Pandas  
• Theano • Seaborn • Beautiful Soup  
• PyTorch • OpenAI Gym • Git

### ANALYTICS

Google Analytics • Tableau

### SOFT SKILLS

Leadership • Public Speaking  
• Teamwork • Adaptability

## COURSEWORK

### ONLINE

- Complete Machine Learning and Data Science - (6 months)- Coding Ninjas
- Data Structures and Algorithms in C++ (4 months)- Coding Ninjas
- Artificial Intelligence: Reinforcement Learning in python - Udemy
- Advanced-AI: Deep reinforcement Learning in python - Udemy
- Cutting-Edge-AI: Deep reinforcement Learning in python - Udemy
- Deep Learning A-Z - Udemy
- Advanced Google Analytics - Google

### UNDERGRADUATE

Basics of Programming  
Modelling and Simulation

## EXPERIENCE

**INDIAN INSTITUTE OF TECHNOLOGY, HYDERABAD - CSE DEPT.** | SUMMER RESEARCH FELLOW

June 2020 - August 2020 | Hyderabad, IN

- Area of Research: **Self-Supervised Machine Learning**.

**GETBOARDED TECHNOLOGIES** | MARKET RESEARCH ANALYST +  
MACHINE LEARNING ENGINEER INTERN

April 2020 - Jun 2020 | Aveiro, PT

- Developed fake news detection model using **Deep Natural Language Processing (Word2vec and TensorFlow)** with a decent **88%** accuracy.
- Led the advanced ChatBot development team, architected a **seq2seq** model using **TensorFlow**, **LSTM**, and **RNN**.
- Devised **Time-series graphs** and complex plots like **Boxen plots**, **Violin plots** and **Heat maps** for the cases and activities of COVID-19 patients for the International European hackathon and TaiKai online hackathon.

**TAKENMIND ORGANIZATION** | DATA ANALYST INTERN

April 2020 | Virtual, IN

- Worked in a team of interns from 13 different countries, contributing to building an analytical solution to an existing problem by analyzing the problems faced by the company using **Seaborn**, **SQL**, **Pandas** and **Tableau**.

## MAJOR PROJECTS

**OPEN-MI-CAFE** | MACHINE LEARNING, WEB API,  
ENTREPRENEURSHIP

Aug 2019 - Present | Kurukshetra, IN

- Analyzed and researched on available and missing cuisines in Delhi NCR using **Zomato's**(Online foodservice platform) **API**.
- Implemented **Machine learning** algorithms to predict the best-suited combination of cuisines and ambiance of the cafe/restaurant to help **Foodpreneurs** maximize food audience and profit.

**MY STOCK TRADER** | DEEP REINFORCEMENT LEARNING,  
TENSORFLOW, Q-LEARNING

Feb 2020 - April 2020 | Kurukshetra, IN

- Modelled a reinforcement learning agent using **TensorFlow** that **participates in stock trading** by holding, selling, and buying the stocks. Unlike the (Un)supervised models that only make predictions.
- Implemented **momentum** for faster training purpose.

**GRATIFAI** | ARTIFICIAL INTELLIGENCE, PYTORCH, A3C, Q-LEARNING  
Nov 2019 - Jan 2020 | Kurukshetra, IN

- Developed an **AI**, a **Deep Convolutional Q-Learning** model combined to **Eligibility Traces** for playing Doom(video game) and trying to beat it.
- Developed an **AI**, a **LSTM-A3C** model for playing Breakout(arcade game) and trying to beat it.

**TIMES OF INDIA SCRAPER** | PYTHON, BEAUTIFUL SOUP, SQLITE

Sep 2019 - Oct 2019 | Kurukshetra, IN

- Built a scraper for Times Of India (Indian English-language daily newspaper) using **Python**, **Beautiful Soup** and **Daemons** library.

## ACHIEVEMENTS

- Merit scholarship holder for the academic session 2019-20 (**3<sup>rd</sup> departmental ranker** out of 138 students).
- One among the 6 nominated students amidst 700 students for the International Youth Exchange Program under Government of India- 2020.
- Awarded: 'The Most Promising Athlete Of The Institute' 2018-19.

## EXTRACURRICULAR

- **Ecoika:-** Leading a team of three Minimalist nature lovers to find alternates and solutions to Ghazipur landfill, which has grown taller than the Taj Mahal.
- **Founder:- Macrogoogol** - An InfoGraphic Instagram page on Entrepreneurship, Analytics, and Data Science.
- **Winner:-** B-plan (A Business Management competition, where participants pitch their business plans, prepare Revenue Models, and carry out a SWOT and PEST analysis) at Techspardha, 2019 (NIT Kurukshetra Annual Tech Fest ).
- **Runner up:-** Startup Week, 2018 - organised by Industry Cell NIT, Kurukshetra (A week dedicated to promoting an entrepreneurial environment where participants compete by pitching their ideas to the jury).
- Bagged Silver medal in Men's Javelin Throw at All-India Inter-NIT Athletics Championship NIT Warangal, 2018. Best Athletes from 31 NIT's all over India compete in different athletic events for 4-5 days.

## CLUBS AND SOCIETIES

### MUST RESEARCH CLUB | ASSOCIATE MEMBER

Jul 2020 - Present | Bengaluru, KA

- MUST Research Club is dedicated to promoting excellence and competence in Cognitive Computing, Data Science, Machine Learning, Artificial Intelligence and Advanced Analytics for the benefit of the society.
- MUST aims to promote research and development in cognitive informatics in India and across the globe, enabling interaction between academic institutes and industries.

### EMBEDDED SYSTEM AND ROBOTICS CLUB | MEMBER

Sep 2019 - Present | NIT, Kurukshetra

- Technical member.
- Assisted organize workshops and events on Machine Learning, Arduino, Raspberry Pi.

### INDUSTRY CELL | ENTREPRENEURSHIP

Sep 2018 - Present | NIT, Kurukshetra

- Member of Corporate Relations and Outsourcing team, which plays an essential role in organising E-summit and Startup week.
- Co-manager of Digital Marketing Team.
- Assisted organize workshops on Entrepreneurship and Marketing.

## VOLUNTEER EXPERIENCE

### GOOGLE AI - EXPLORE ML PROGRAM | TECHNICAL VOLUNTEER NATURAL LANGUAGE PROCESSING

Jun 2019 - Mar 2019 | NIT, Kurukshetra

- Prepared and delivered sessions on Natural Language Processing at Google AI | Explore ML Advance Track Workshop.
- Presented a minor project of Movie review classification to explain concepts like **Tokenization, Stemming, Lemmatization, Part Of Speech, and NLTK Naive Bayes classifier.**

### JUVENILE REHABILITATION CENTER

#### TEACHING AND COUNSELLING VOLUNTEER

May 2019 - Jul 2019 | Ajmer, Rajasthan, IN

- Made regular weekend visits teaching moral values, mannerisms, communication skills, and social etiquette.
- Tutored 10<sup>th</sup> class students in science and mathematics.