

# Paras Varshney

COMPUTER SCIENCE @ IITK · DATA SCIENCE · MACHINE LEARNING · DEEP LEARNING

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## About

"I am a dedicated & self-motivated individual with 9+ months of professional working experience in Software Development & ML Internships. Highly passionate about Data Science & Machine Learning. Creative & Perceptive with a never giving up approach in life. Looking for a full-time Data Science role where I can learn and contribute to the best of my abilities."

## Education

### Indian Institute of Information Technology Design & Manufacturing

Kurnool, Andhra Pradesh

B.TECH IN COMPUTER SCIENCE

August 2016 - Present

- Passed 7 semesters with a CGPA of **9.05/10**.
- Scored **Rank 1** for first semester in Institute across all branches.
- Código club** coordinator with active contributions.
- Head Cultural coordinator for the academic session 2018-19.

### Radiant Stars English School

Aligarh, Uttar Pradesh

SENIOR SECONDARY EDUCATION 

April 2013 - March 2015

- Passed Intermediate +2 from CBSE Board with **91.40%**
- Gold Medal Awardee scoring **Rank 1** in Institute.

### Our Lady of Fatima Hr. Sec. School

Aligarh, Uttar Pradesh

HIGHER SECONDARY EDUCATION 

April 2000 - March 2013

- Passed High School from CBSE Board with a CGPA of **10/10**.

## Experience

### Citrusberry Solutions Pvt. Ltd.

Mumbai, Maharashtra

DATA SCIENCE INTERN

Jan 2020 - March 2020


- Worked on enhancing and improving the e-commerce business experience by implementing Machine Learning approaches like Dynamic Pricing, Churn Analysis, Customer Segmentation, Sales Analytics, Market Response.
- Used Business intelligence tools like Tableau and Apache Superset for building business analytics dashboards.

### Illumnus Education Technologies Private Limited (IIT Bombay)

Pune, Maharashtra

MOBILE APPLICATION DEVELOPER & DATA SCIENCE (R & D) INTERN 

May 2019 - October 2019


- Build a SaaS based cloud ecosystem for educational institutes on Android platform for Real-time Collaboration. 
- Implemented Search Engine, Optimized Push Notifications using GCM & Firebase, Assignment Creating, Submission & Grading, Optical Bar code Detector, Performance Data Analysis & Administration Visualizations.
- Built a Recommendation System for teachers to get content sharing recommendations for students based on their teaching pattern.

### Magicbricks Realty Services Limited (The Times Internet Group)

Sec 18-Noida, Uttar Pradesh

ANDROID DEVELOPER INTERN, R&D RESEARCHER & API DEVELOPER 

May 2018 - July 2018

- Implemented Optical Character Recognition using Mobile Vision API for detecting property advertisements from Newspapers. 
- Back-end Implementation of secured property verification and Photo shoot Services API using Spring Boot & Hibernate Frameworks.
- Built modules for improving Search Engine, Location Optimization, Battery Management Services and User Interface in Magicbricks Android Application.

## Technical Skills

**PROGRAMMING LANGUAGES** : Python 3 • C/C++ Programming • Java 8 • Kotlin • R Programming.

**CORE CS** : Programming and Data structures • Algorithms • Database Systems • Object Oriented Programming • Operating Systems • Computer Networking • Artificial Intelligence • Machine Learning for Engineering & Science Applications.

**LIBRARIES & FRAMEWORKS** : pandas • NumPy • matplotlib • Scikit-Learn • seaborn • OpenCV • TensorFlow • Keras • Flask.

**SIMULATIONS** : Arduino UNO • Raspberry pi • Xilinx • TivaBoard-C.

**ML TECHNIQUES** : Data Wrangling • Modeling • Statistical Analysis • Machine learning • NLP • Neural Networks & Deep Learning.

**WEB TECHNOLOGIES** : HTML5 • CSS • Bootstrap 4.0 • Spring Boot • Spring Hibernate • AWS • GCP • Heroku.

**TOOLS & IDEs** : Android Studio • Pycharm • R-Studio • Jupyter Notebooks • ISE Design Suite • Git • Firebase • Microsoft Power BI • Tableau • Apache Superset.

## Projects & Research

### Autonomous AI-powered Attendance engine

*Data Science & Research*

A COMPUTER VISION BASED IMAGE CLASSIFIER MODEL BASED ON (COMPUTER VISION, DNN, FACIAL RECOGNITION)

*Mar'20*

- AI classifier model follows the pattern image detection, filtering and image recognition using computer vision techniques.
- Research oriented, Deep Facial Recognition mapping attendance for all students from just one image clicked by the Teacher.
- Tech: Python3, OpenCV, Tensorflow, Flask, Data Science Life cycle, AWS Deployment.

### Dynamic Pricing based Hotel Revenue Management System

*Data Science & ML*

A PRICE OPTIMIZATION MODEL BASED ON DYNAMIC PRICING (PRICE OPTIMIZATION, SUPPLY & DEMAND)

*Dec'19*

- A Highly Accurate ML model trained over open data-sets to predict the dynamic price of a hotel room based on various factors.
- The model takes into consideration about the demand and supply for a hotel room in a particular location and generate Recency-Frequency-Monetary scoring to predict the final price which pleases the customer as well as bringing a positive revenue for the hotel.
- Tech: Python3, Seaborn, Bokeh, Jupyter Notebook, Feature Engineering, Statistical Inferences.

### Sentiment Analysis on IMDB movie reviews

*Data Science & Research*

A NLP BASED TEXT CLASSIFYING DATA SCIENCE PROJECT (NLP, OPTIMIZATION, MACHINE LEARNING)

*Oct'19*

- Research oriented, Binary text-polarity classifier based on movie reviews, using Stanford open data, build over various ML Models to improve performance metrics for text data classifier model implementations.
- Tech: Python3, BoW, TF-IDF, n-Gram, Word2Vec, Doc2Vec, PV-DM, PV-DBOW.

### Smart AI Traffic Light System Using CCTV (Smart India Hackathon)

*Machine Learning & IoT*

A ML AND IOT BASED AUTOMATIC TRAFFIC LIGHTS CONTROLLING SYSTEM (SIH, COMPUTER VISION, ANDROID)

*Sept'18*

- With a team of 6 members as a part of SIH, built a computer vision based Automatic Traffic Lights Controlling System that senses on traffic density on road, monitors the road statistics and changes the streetlight signal accordingly, prototyped on Raspberry pi 3B+
- The analysis is sent to an Android App for the Administration use through Firebase cloud for complete lights switching access.
- Tech: Python3, Java, Raspberry pi 3B+, Arduino UNO, Firebase, YOLO, OpenCV, CCTV Video Imaging.

### RastaNapo: Track, Trace Foots & Win Cash (Native Android App, Location Tracking, Contests)

*Android Application*

AN ANDROID APPLICATION FOCUSED ON TRACKING USERS TRAVELLED PATH

*Aug'18*

- RastaNapo is an Android Application that helps user to find optimized routes to reach the destination in shortest possible time.
- App tracks users' path travelled from the source to destination and stores it locally which can be accessed without internet usage.
- Application motivates user to travel by running contests to win prizes for users who crosses any event's distance limit.
- Tech: Java, XML, Gradle, Android Studio, VCS, Firebase, Material Design, Play Store


## Certifications

Feb'20 **Google AI | Explore ML Intermediate Track** , Completed Intermediate Machine Learning Track.

*Google*

Dec'19 **Data Scientist with Python Track** , 100+ hours of 26 courses specialization on Data Science.


*DataCamp*

Dec'18 **Data Science: Visualization** , A course focusing on Data Visualization techniques & Analysis.


*edX*

May'18 **Android Development Training** , Completed Android Developers Advanced training in Java.

*Acadgild*

Aug'17 **Machine Learning Workshop** , A workshop on learning basics of Machine Learning and AI.

*Shaastra*

Sep'16 **Gesture Controlled Robotics Workshop** , Learned & Built gesture controlled bot using Arduino.

*SP Robotics*

## Activities & Honours

Present	<b>Data Science Author</b> , Author at Towards Data Science, Analytics Vidya and Data Driven Investor.	<i>Medium.com</i>
2020	<b>HackBout Finalist</b> , Selected for the 36+ hours Hackathon held at NMIT, Bengaluru	<i>NMIT, Bengaluru</i>
2020	<b>Kaggle 3X Expert</b> , Ranked globally as an expert on Kaggle for 3 categories	<i>Kaggle.com</i>
2020	<b>ML challenge Ranker</b> , Ranked globally under 300 out of 5100+ participants at ML open Challenge	<i>HackerEarth</i>
2020	<b>HackBout Finalist</b> , Selected for the 36+ hours Hackathon held at NMIT, Bengaluru	<i>NMIT, Bengaluru</i>
2018-19	<b>Cultural Club Secretary</b> , Organized talks & workshops, conducted various events and annual fest.	<i>IIITDM Kurnool</i>
2017-18	<b>Código Club Coordinator</b> , Conducted workshops for Android and various technical events.	<i>IIITDM Kurnool</i>
2017-18	<b>Social Service Group Member</b> , Participated in various cleanliness drives & fund-raisers.	<i>IIITDM Kurnool</i>

## Interests & Hobbies

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Guitarist (IIITDM Band) • Speed Cuber (under 40 sec) • Table Tennis (CBSE clusters twice, District Thrice, runner up in inter-IIIT) • Competitive Coding • Science-fiction Movies • Astronomy • Robotics • Model making • Travelling & Running • Skating • Swimming.

## References

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<b>Sudnakar Piridi (Training &amp; Placements Officer)</b> :	placement@iiitk.ac.in	+91-9137423677	<i>IIITDM Kurnool</i>
<b>Akash Deep Singhal (Director &amp; CEO, Illumnus)</b> :	akash@illumnus.com	+91-7738983120	<i>Illumnus Education Technology</i>