Paras **Varshney**

COMPUTER SCIENCE @ IIITK · 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 form 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 send 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 accesses 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	**Data Science Writer**, Author at Towards Data Science, Analytics Vidya and Data Driven Investor.	*Medium.com*
2020	**HackBout Finalist**, Selected for the 36+ hours Hackathon held at NMIT, Bengaluru	*NMIT, Bengaluru*
2018-19	**Cultural Club Secretary**, Organized talks & workshops, conducted various events and annual fest.	*IIITDM Kurnool*
2017-18	**Cödigo Club Coordinator**, Conducted workshops for Android and various technical events.	*IIITDM Kurnool*
2017-18	**Social Service Group Member**, Participated in various cleanliness drives & fund-raisers.	*IIITDM Kurnool*

Interests & Hobbies

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

Sudnakar Piridi (Training & Placements Officer) : placement@iiitk.ac.in   +91-9137423677   *IIITDM Kurnool*

Akash Deep Singhal (Director & CEO, Illumnus) : akash@illumnus.com   +91-7738983120   *Illumnus Education Technology*