Reshu Singh

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EDUCATION

Indraprastha University   New Delhi, India
Bachelors of Technology in ECE; CGPA: 8.25/10.0   *Graduated June 2019*

SR D.A.V Public School   New Delhi, India
AISSCE XII ; Grade: 92 % (PCM)- 2015 | AISSCE X ; CGPA: 10/10 - 2013

SKILLS

- **Languages**: Python, C,Cpp, R, MATLAB, SQL, HTML, CSS
- **Libraries**: Scikit-Learn, Numpy, Pandas, Matplotlib, Jupyter, Keras, PyTorch, OpenCV Basics

RELEVANT INDEPENDENT COURSEWORKS

- **ML**: Machine Learning by AndrewNG (Coursera), Machine Learning A-Z Hands on Python (Udemy), Python Fundamentals (DataCamp), MATLAB Educational tutorials
- **Udacity based Coursework**: SQL, Advanced SQL, Statistics(Inferential and Descriptive), Data Visualization, Probability, Regression Techniques, Data Cleaning and Wrangling

EXPERIENCE

Addverb Technology   Noida, India
Robotics Team   *June 2019 - Present*
- **Graduate Engineer Trainee**: Part of Mobile Robotics team , working on System Design and Perception domains mainly

Defence Research Development Organisation   New Delhi, India
Research Trainee   *May 2018 - July 2018*
- **Data analysis on sensor data**: Performed analysis using visualizations on the data collected from sensors.

JMoons Robotics Lab   New Delhi, India
Summer Intern   *May 2017 - Aug 2017*
- **Maker intern**: Was a part of growing startup mainly focussed on Robotics. Was responisble for ML integration for Robot's vision. Worked hands-on on Raspbian OS to integrate codebase with Rpi camera.

PROJECTS

- **Chinook DB Analysis**: Used SQL to parse and analyse the Music company database.Plotted visualizations using MS Excel.
- **US Youtube Data set Analysis**: Data visualization using Tableau to better understand the effects of number of likes and dislikes on views and also traced out which states or regions of US has maximum or minimum viewership.
- **Prosper Loan Data set Analysis**: Exploratory Data analysis of financial data-set.Utilized skills in Statistics and R.
- **Amazon Customer Reviews Analysis**: In-depth analysis using python over data set containing 1.5 lac data points.Performed analyses considering polarity (positiveness or negativeness of reviews) and plotted word clouds.
- **WeRateDogs Twitter Analysis**: Fetched data from Twitter API,cleaned it, and performed analyses considering statistical hypotheses.Plotted Visualizations using Python and TextBlob API.
- **A/B Testing on website Data set**: The project is aimed to determine wheather a new feature to be added will increase CTR(Click through rate).
- **Caries Detection System**: Used SVM and KNN to detect caries in Xray images of teeth using MATLAB. Accuracy >80%.
- **Air-Key | Major Project**:
  - Hand gesture monitored gadget. Lets air- typing , remote PC controlling just swiping hands in air
  - Used Motion Processing Unit and gyroscope sensor to gather data and performed predictions of letters and numbers using ML classifier SVM(Support Vector Machine)

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- *135 Rank* at **AMEX Decipher Data Science Challenge on Analytics Vidhya platform**
- Content Writer , **LeanIn India Chapter** - An initiative by Sheryl Sadnberg, Facebook's COO
- Core Team , **WiMLDS**(Women in Machine Learning and Data Science)Delhi Chapter
- **Bertelsmann Udacity Data Science Scholarship 2018-19** -Selected among 1500 Scholarship recepients out of over 15k aspirants
- **Grace Hopper Celebration India 2018 Student Scholar** Travel grant to attend the Celebration and Career fair being held at Bangalore
- *Runners Up* at **Smart India Hackathon 2018** - Software Edition
- **Outsatnding Student Volunteer Award 2018** by IEEE Delhi section for remarkable contribution for the organization
- Won *1st prize* (out of 50 teams across Delhi) at **Ideathon**-*T*echnical Idea pitching competition organised by IEEE-NSIT
- Served as **Chairperson** for WIE(Women in Engineering Affinity Group) IEEE GTBIT Student Chapter
- Student Leader, **Udacity DAND Slack Channel**
- Active Quora Writer, Write about Delhi, academic tips and life in general