

# ROHIT DUGGAL

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## EDUCATIONAL QUALIFICATIONS

COURSE	INSTITUTION / UNIVERSITY	YEAR	PERFORMANCE
<b>M.Sc. Operational Research</b>	St. Stephen's College, University of Delhi.	2018-2020	<b>RA</b>
<b>Diploma (Big Data Analytics)</b>	NIIT, New Delhi	2016-2017	<b>81.05%</b>
<b>B.Sc.(H) Mathematics</b>	DDU College, University of Delhi.	2013-2016	<b>86.3%</b>
<b>CBSE XII</b>	JLDAV Public School, New Delhi	2012-2013	<b>88.8%</b>
<b>CBSE X</b>	JLDAV Public School, New Delhi	2010-2011	<b>8.2 (CGPA)</b>

## SKILLS

<b>TOOLS</b>	Hadoop, MapReduce (Java/Python), Pig, Hive, HBase, Sqoop, Flume, Spark (PySpark/Java), MongoDB, MySQL, PostgreSQL, Tableau.
<b>LANGUAGES</b>	Java, Python, C++, R, HTML, PHP, Java Script, SQL.

## WORK EXPERIENCE (IN: INTERNSHIP, FT: FULL TIME)

### **(IN) Data Scientist: NeurIOT Technologies (September, 2020 – January, 2020)**

- Keywords:  
(c) (c++) (gstreamer) (deepstream) (computer-vision-pipelines) (mongodb) (python)

### **(IN) Visualization Engineer: Pikkal & Co - B2B Podcast Agency (July, 2020 – August, 2020)**

- Keywords:  
(python) (django) (visual-analytics) (matplotlib)  
(pandas) (html)(plotly) (javascript) (ajax)

### **(IN) Machine Learning Engineer: DecisionTree Analytics & Services (December, 2019 – May, 2020)**

- Keywords:  
(python) (featuretools) (feature-engineering) (feature-extraction) (sklearn) (pandas)  
(numpy) (pipelines) (autoML) (visual-analytics) (matplotlib) (flask) (pandas\_profiling)  
(plotly) (javascript) (ajax)

### **(IN) Visualization Engineer: 1Gen Platform Solutions (June, 2019 – August, 2019)**

- Worked with the *Data Science* team to generate various visualizations using *Tableau/Bokeh*.
- Worked with huge datasets using *SQL/Tableau* (*Backend Database: MySQL*).
- Developed various *web API's* using *PHP/SQL* for the front-end data-driven dashboards.
- Others: Data Processing (using *Pandas/NumPy*), Google/Apple Store Analytics (for generating reports).

### **(IN) Data Scientist: Terra Economics and Analytics Lab (TEAL) (May, 2019 – June, 2019)**

- Involved *Data Processing*, basically, giving some kind of schema/structure to massive unstructured datasets using *Pandas/NumPy libraries (Python)*.
- Developed various *Data-Driven Dashboards* using *Tableau* for visualization.
- Intense use of *Regular Expressions* using *re library (Python)* for scraping data from various data sources.

### **(IN) Subject Matter Expert: Evelyn Learning Systems Pvt. Ltd. (April, 2017 – Jun, 2017)**

- Worked as a full time intern in *Mathematics Department*.
- Developed quality solutions for American publications like *McGraw Hill Education and Pearson*.
- Led the team of interns in final month and shared the post of reviewer

## **PROJECTS**

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NAME	DETAILS
<b>Twitter -API (January, 2021)</b>	Tags: (twitter-api) (twitter-stream) (data-processing) (python) (data-reports) (regex)  Link: <a href="https://rb.gy/fsyo9t">https://rb.gy/fsyo9t</a>
<b>NiFi-Flow (December, 2020)</b>	Tags: (apache-nifi) (nifi-workflows) (flask-api) (nifi-processors) (data-engineering) (data-pipelines) (ETL)  Link: <a href="https://rb.gy/pvme8e">rb.gy/pvme8e</a>
<b>poly-process (December, 2020)</b>	Tags: (C++) (text-manipulation) (text-processing) (polynomials) (polynomial-manipulation) (regex)  Link: <a href="https://rb.gy/555ulf">https://rb.gy/555ulf</a>
<b>Senti-ments (November, 2020)</b>	Tags: (nlp) (python) (pyramid) (html) (ajax) (pyramid) (sklearn) (sentiment-analysis) (classification) (supervised-learning)  Link: <a href="https://rb.gy/la4ozq">https://rb.gy/la4ozq</a>
<b>Auto ML (May, 2020)</b>	Tags: (python) (featuretools) (sklearn) (pandas) (numpy) (pipelines) (visual-analytics) (matplotlib) (flask) (pandas_profiling) (plotly) (javascript) (ajax)  Link: <a href="https://rb.gy/97ryk7">https://rb.gy/97ryk7</a>
<b>Road Crash Investigation (November, 2019)</b>	Tags: (Analytics)(Data-Processing)(Python)(geopandas) (geoJSON)(Latitude-Longitude)(PostgreSQL)(Indexing)  Full report: <a href="http://tiny.cc/i55rfz">http://tiny.cc/i55rfz</a>

<b>SHOWDOWN (July, 2019)</b>	A showdown between two data visualization tools: (1) Tableau. (2) Bokeh. (A library actually) Here's a link to a write up I created to compare these two, using the same Tableau kaggle project listed below. Link: <a href="http://tiny.cc/am389y">http://tiny.cc/am389y</a>
<b>Bokeh -Dash (July, 2019)</b>	Tags: (Analytics)(Data-Processing)(Python)(geopandas) (bokeh)(pandas)(shapely)(interactive-dashboard)  Project Link: <a href="https://rb.gy/5vk22k">https://rb.gy/5vk22k</a>
<b>Visualization (Tableau) (May,2019)</b>	<ul style="list-style-type: none"> <li>- Uses '<i>Suicides Worldwide</i>' data set from <b>Kaggle</b>.</li> <li>- Developed various Dashboards, which tries to answer the following questions :               <ul style="list-style-type: none"> <li>(1) Suicides Country-Wise.</li> <li>(2) Suicides among Genders, Year-Wise.</li> <li>(3) Suicides with respect to Age-Groups, Year-Wise.</li> <li>(4) Suicides greater where Country's Population is high ?</li> <li>(5) Suicides greater where Country's GDP is low ?</li> <li>(6) Suicides among Genders, Country-Wise.</li> </ul> </li> <li>(Different filters available for every dashboard)</li> </ul> <p>Link to the file: <a href="http://tiny.cc/r1289y">http://tiny.cc/r1289y</a></p> <p>Tool Required: <a href="https://www.tableau.com/products/reader">https://www.tableau.com/products/reader</a> (Tableau Reader) (Free)</p>
<b>Data Visualization Dashboard (Web Development/Data Analysis) (December, 2018)</b>	Given a JSON file, the objective was to develop a dynamic web application which generates a 'Heat Map' based on 3 entities over 5 fields, with confidence intervals over 3 levels. Languages/Libraries used: HTML, JavaScript, Plot.js, PHP. Link: <a href="http://tiny.cc/do289y">http://tiny.cc/do289y</a>
<b>Department of Operational Research (Web Development) (December, 2018)</b>	<ul style="list-style-type: none"> <li>- Back end database used: MySQL.</li> <li>- Languages used: PHP, Java Script, SQL, HTML.</li> <li>- Handles SQL Injection.</li> <li>- Includes a control panel like interface to control content on the main website.</li> </ul> <p>Link: <a href="http://tiny.cc/9p289y">http://tiny.cc/9p289y</a></p>

## **CERTIFICATIONS/ACCOMPLISHMENTS**

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- *Maestro in Ethical Hacking*, Kyrion Technologies (2014)
- Cleared *CT-3 (Probability & Statistics)* Actuarial Exam under the Institute of Actuaries of India.(2015)
- *Professional Diploma in Big Data Analytics* (Developer/Analyst) (NIIT) (2017)
- Data Camp: Visualization using Python-Bokeh (June 2019)
- Coursera: Tableau Visualization Essentials (June 2019)