ROHIT DUGGAL

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EDUCATIONAL QUALIFICATIONS

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

SKIILS

TOOLS	Hadoop, MapReduce (Java/Python), Pig, Hive, HBase, Sqoop, Flume, Spark (PySpark/Java), MongoDb, MYSQL, PostgreSQL, Tableau.
LANGUAGES	Java, Python, C++, R, HTML, PHP, Java Script, SQL.

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

(IN) Data Scientist: NeurIOT Technologies (September, 2020 – Present)
- Keywords:
  (c) (c++) (gstreamer) (deepstream) (computer-vision-pipelines) (mongodb) (python) (full-stack-development)

(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

NAME	DESCRIPTION
poly-process (December, 2020)	Tags: (C++) (text-manipulation) (text-processing) (polynomials) (polynomial-manipulation) (regex) Link: https://rb.gy/555ulf
Senti-ments (November, 2020)	Tags: (nlp) (python) (pyramid) (html) (ajax) (pyramid) (sklearn) (sentiment-analysis) (classification) (supervised-learning) Link: https://rb.gy/la4ozq
Auto ML (May, 2020)	Tags: (python) (featuretools) (sklearn) (pandas) (numpy) (pipelines) (visual-analytics) (matplotlib) (flask) (pandas_profiling) (plotly) (javascript) (ajax) Read the full report here: Link: https://rb.gy/gzqfpg
Road Crash Investigation (November, 2019)	Tags: (Analytics)(Data-Processing)(Python)(geopandas) (geoJSON)(Latitude-Longitude)(PostgreSQL)(Indexing) Read the full report here: Link: http://tiny.cc/i55rfz

SHOWDOWN (July, 2019)	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: http://tiny.cc/am389y

Bokeh -Dash (July, 2019)	Tags: (Analytics)(Data-Processing)(Python)(geopandas) (bokeh)(pandas)(shapely)(interactive-dashboard) Project Link: https://rb.gy/5vk22k
Visualization (Tableau) (May,2019)	- Uses *'Suicides Worldwide'* data set from **Kaggle**. - Developed various Dashboards, which tries to answer the following questions : (1) Suicides Country-Wise. (2) Suicides among Genders, Year-Wise. (3) Suicides with respect to Age-Groups, Year-Wise. (4) Suicides greater where Country's Population is high ? (5) Suicides greater where Country's GDP is low ? (6) Suicides among Genders, Country-Wise. (Different filters available for every dashboard) Link to the file: http://tiny.cc/rl289y Tool Required: https://www.tableau.com/products/reader (Tableau Reader) (Free)
Data Visualization Dashboard (Web Development/Data Analysis) (December, 2018)	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: http://tiny.cc/do289y
Department of Operational Research (Web Development) (December, 2018)	- Back end database used: MySQL. - Languages used: PHP, Java Script, SQL, HTML. - Handles SQL Injection. - Includes a control panel like interface to control content on the main website. Link: http://tiny.cc/9p289y
Database Management (MYSQL) (March, 2017)	A web interface created with the help of Flask (Python), which accepts info from the user and stores it in a MYSQL server, allows storing/modifying/updating/deleting user info. Github Link: http://tiny.cc/3r289y
Database Management (HBase) (March, 2017)	A simple command line interface program written in python that accepts data from the user and stores it in aHBase database. Also, can modify the details entered by the user. Github Link: http://tiny.cc/it289y

GUI (March, 2017)	Given an excel file, the objective was to read that excel file using python modules, save it in a MYSQL server and analyze data graphically based on the input provided by the user via a graphical user interface. Github Link: http://tiny.cc/pu289y

CERTIFICATIONS/ACCOMPLISHMENTS

- *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)