

CHRISMA CLARE DSOUZA

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EDUCATION

- 2020** **St. Joseph's College (Autonomous), Bengaluru**
M.Sc. in Big Data Analytics
Result Obtained: 81.97%
- Projects Undertaken:**
- ***Speech Analytics in Python.***
Built an App to acquire insights on conversational audio data from a call centre using Natural Language Processing.
 - ***Classifying respiratory diseases using audio recordings in Python.***
Built an app to detect if recordings of patient respiratory cycles contain crackles or wheezes using ML.
 - ***Risk analysis in Stock Markets using CVAR and Sentiment Analysis in R.***
Plotting opening/closing/High/Low price and 'Returns' for 15 companies across 3 stock exchanges, creating an app to display the risk involved in each stock (using CVAR) and how sentiment analysis on Biocon affects it's stock prices.
 - ***Control Charts for SQC using R Shiny.***
Plotting Control charts for input data from user, displaying action and warning limits.
 - ***Recommendation Engine for a Retail store using Images in Python.***
Using customer transaction details and images of products to recommend 10 best products to a customer using Similarity, Filtering and Computer Vision.
- 2018** **Mount Carmel College, Bengaluru**
B.Sc. in Economics, Mathematics and Statistics
Result Obtained: 85.2%
- Projects Undertaken:**
- ***Aged but Not Out,*** Department of Statistics
Study involving the changing demographic profile of the aged in India using census, effectiveness of social welfare programmes provided by the government and the problems faced by the elderly in Bengaluru using Statistical tools – R, Minitab and Excel
 - ***The Grey Tsunami,*** Department of Economics
Comparative study on the demographic profile of India and Japan and its economic effects
- 2015** **St. Agnes Pre-University College, Mangaluru**
Higher Secondary Education in Physics, Chemistry, Mathematics and Biology
Overall Aggregate Percentage – 94%
- 2013** **Indian School Al Wadi Al Kabir, Sultanate of Oman**
Secondary School Examination
Overall Aggregate CGPA - 10

WORK EXPERIENCE

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|---------------------------|---|-------------------------|
| Aug 2020 - Present | Tata Consultancy Services Ltd | Bangalore, India |
| | <ul style="list-style-type: none">• Carbon Emission Factor Calculation for specific products to help reduce Green House Gas Emissions by 2050 (using Azure and Snowflake) | |

Dec 2019 -
Apr 2020

Tata Consultancy Services Ltd
Internship

Bangalore, India

- Building Spare Parts Inventory Management End to End Tool
(Data creation, processing, modelling, optimization using Plotly Dash on Python)

Aug-Nov, 2019

Karnataka State Police
Police Computer Wing - Internship

Bangalore, India

- Data visualization of Karnataka IPS Records and Bengaluru City Crime Mapping
- Organised India Police Hackathon 2019

NGO EXPERIENCE

2016-2017

U&I Teach
English and Mathematics Tutor

Bangalore, India

- Volunteered as a tutor for underprivileged children between the ages 9 to 12 to help boost their English speaking skills and command over mathematics
- Raised funds for the organization to facilitate education and rehabilitation of people from various communities

Present

Creating Futures
Spoken English Program

Online Mode

- Tutoring young adults in spoken English from rural India, in order for them to be better equipped with finding employment and other opportunities.

ACHIEVEMENTS

- Awarded Golden Jubilee Prize for Most deserving student in mathematics by Mount Carmel College, Bengaluru (2018)
- Awarded certification of appreciation for hard work and academic performance by Department of Statistics, Mount Carmel College, Bengaluru (2018)
- College Topper in Mathematics (100%) at Pre-University Level (2015)
- Awarded Best Outgoing Student of Science by St. Agnes Pre-University College (2015)
- Top 10% meritorious student in Secondary School (2013)

ADDITIONAL SKILLS AND EXTRA CURRICULAR INTERESTS

IT SKILLS

- Proficient in Microsoft Office
- MATLAB for mathematical Analysis – Intermediate
- R and Python for Data Science
- Hadoop, Azure and Snowflake

OTHER LANGUAGES

- Basic in written French
- Proficient in spoken Hindi and Konkani

EXTRA CURRICULAR INTERESTS

- Grade 8 Pianist from The Associated Board of the Royal Schools of Music (ABRSM) London, UK
 - State Level Basketball player at Pre-University Level.
 - Other Interests – Reading, Travelling and Trekking.
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