

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

WORK EXPERIENCE

Sept 2021 -
Present

Research Associate at Indian School of Business

Mohali, India

- Reporting to Prof. Aaditya Dar on projects of development economics (Agriculture and Communal Violence)

Dec 2019 -
Sept 2021

Tata Consultancy Services Ltd

Bangalore, India

- Building Spare Parts Inventory Management End to End Tool
(Data creation, processing, modelling, optimization using Plotly Dash on Python)
- Carbon Emission Factor Calculation for specific products to help reduce Green House Gas Emissions by 2050
(Building pipelines using Azure and Snowflake)

Aug-Nov, 2019

Karnataka State Police
Police Computer Wing

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

Bangalore, India

English and Mathematics Tutor

- 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

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)

ADDITIONAL SKILLS AND EXTRA CURRICULAR INTERESTS

IT SKILLS

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

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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