# SHRESHT SHETTY

Data Scientist ~ Engineer

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Maroochydore, Sunshine Coast

## SUMMARY

Data science enthusiast, a sports person with good problem solving and team building skills keen to assume new responsibilities and challenges. Collaborated with cross functioning teams in the fields of insurance, finance (credit risk) and marketing to deliver high performing results. Has created automated workflow pipelines to deploy client models through github actions. Worked in fast paced environments to deliver high quality logistics optimization models to one of the largest grocery chains in Australia.

## SKILLS

**Languages:** Python (numpy, sklearn, pandas, matplotlib), R, SQL, JAVA, Tensorflow.

**Technologies:** AWS, Hadoop, Spark, SAS Enterprise Guide, SAS Studio, CPLEX, Gurobi.

## PROJECTS

Python, Tensorflow, Langchain, Flask, Git **Conversational Chatbots**
Built conversational chatbots for company platform using LLMs and Langchain.

Python, Tensorflow, Langchain, Flask, Git **Logistics Optimization Models**
Built production scale optimization software for one of Australia's biggest grocery chains to automate their distribution center operations.

Python, Tensorflow, Langchain, Flask, Git **Workforce Optimization Models**
Built Optimization models such as transport routing, workforce optimization, operation theatre block scheduling models for the company platform.

Python, Tensorflow, Langchain, Flask, Git **AI Tools**
Employed CI/CD pipelines and MLOps to build AI tools at the company.

## EDUCATION

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|---|---|---|
| 2018 - 2020 | **Masters in Data Science** | **The University of Queensland** |
| | Specialized in Machine Learning and Data Analytics. | |
| 2014 - 2018 | **Bachelors in Chemical Engineering** | **Manipal Institute of Technology** |
| | Specialized in Process Engineering and Optimization. | |

## EXPERIENCE

August 2021 – **Data Scientist**         **BlueSky Creations**
Present
- Built production scale optimization software for one of Australia's biggest grocery chains to automate their distribution center operations.
- Built conversational chatbots for company platform using LLMs and Langchain.
- Built Optimization models such as transport routing, workforce optimization, operation theatre block scheduling models for the company platform.
- Employed CI/CD pipelines and MLOps to build AI tools at the company.
- Implemented automations in deployment using Github actions, collaborated with other team members using git.

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Python / Tensorflow / Langchain / Flask / Git
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Jan 2020 – Aus 2021 **Research Assistant**     **The University of Queensland**
- Conducted multiple experiments to study the impact of demographics on insurance fraud.
- Used Principal component analysis to identify fraudulent claims from insurance claims.
- Conducted various hypothesis tests to understand the difference in suspicion levels between different groups of people.
- Worked through the data science pipeline that included cleaning data, manipulating data, regression analysis and testing.
- Deployed the logistic regression model to study the effect plan switching has on expenditure.

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Python / R / SQL / JAVA
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Jun 2019 – April 2020 **Machine Learning Engineer Intern**                                           **CRiskCo**

- Formed supervised machine learning credit risk models using random forest to identify defaulting companies.
- Worked with cleaning of data and imputation of missing values.
- Used machine learning techniques such as undersampling, oversampling, SMOTE sampling to handle the class imbalance.
- Calculated Probability of Default (PD) for all companies, which indicates their creditworthiness.

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Python / R / SQL / JAVA
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March 2019 – June 2019 **Data Officer**                                           **UQ Business School**

- Collaborated with the marketing team at UQ Business school to improve the data collection and segmentation process for their client, Queensland Treasury Corporation.
- Analyzed and streamlined the data collection process for CRM data.
- Imputed missing values, standardized the dataset to a single format for ease of use.
- Manipulated data in 20+ databases to create a master database to reduce redundancy.
- Delivered a technical presentation to the client that identified faults in their data collection system and included suggestions for improvement.

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Python / R / SQL / JAVA
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## LICENSES & CERTIFICATIONS

**Machine Learning Engineering for Production (MLOps)** - Coursera - Dec 2021, **AWS Solutions Architect Associate** - Amazon Web Services - Issued Jan 2021 Expires Jan 2024, **Deep learning specialisation** - Coursera - Jan 2019