

# Karthika Chermathurai

## Data Engineer

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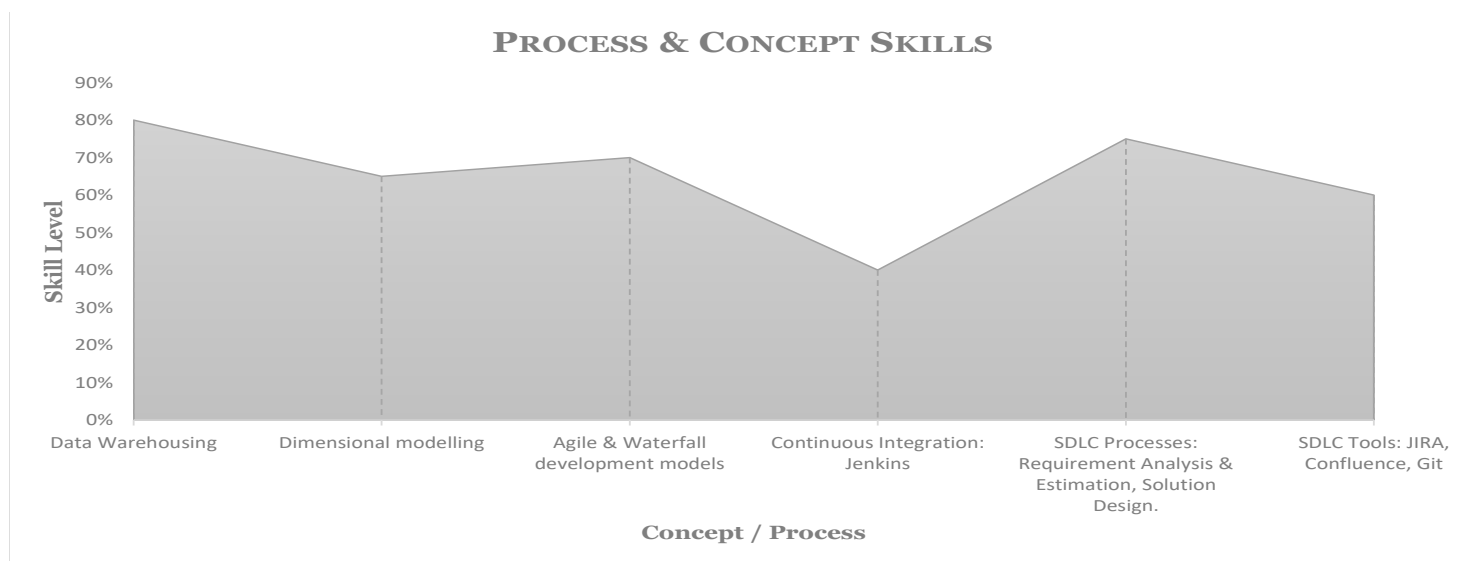
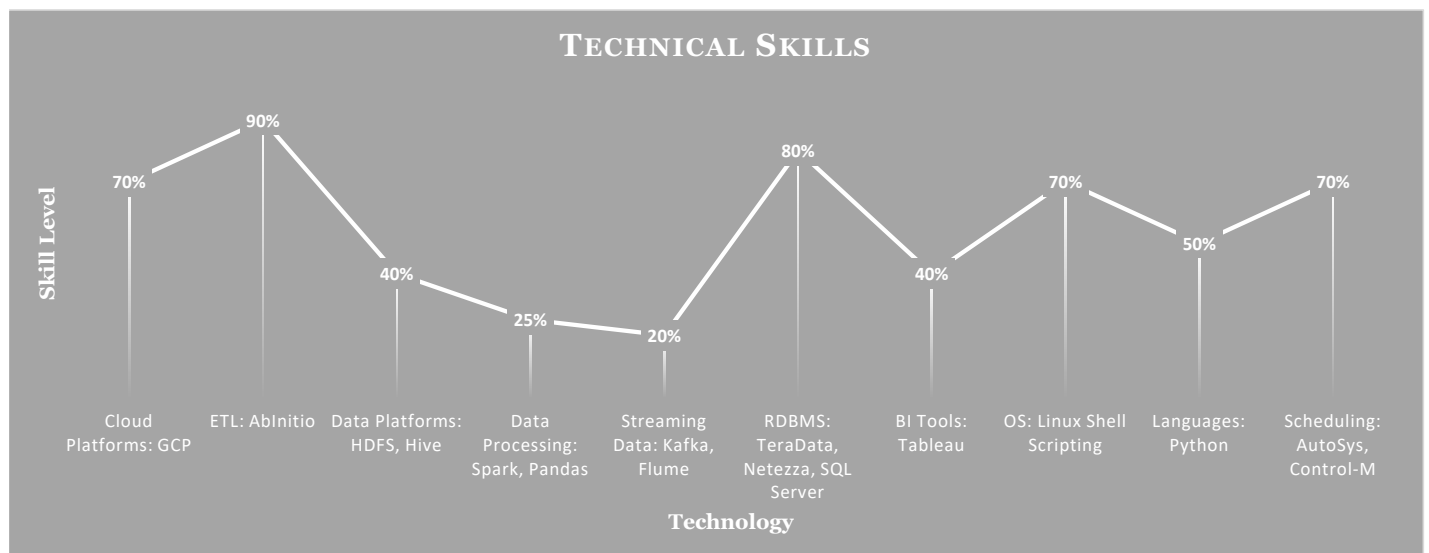
🌐 KarthikaChermathurai

## Profile / Objective

I am an enthusiastic data engineer who wants to explore the beautiful and emerging landscape of data driven software development and user experiences first hand. I started off with traditional data warehousing and have now graduated to modern distributed data solutions thus having a foothold in both the emerging and established data processing methodologies. With over seven years of industry experience, I have also witnessed and been a part of the agile revolution in SDLC.

I am looking forward to being a vital cog in the transformation of enterprises' data management solutions over the next several decades.

## Skills



## Experience

**Data Engineer @ British Sky Broadcasting**  
Livingston, Scotland | Aug 2018 – Present

Over the past two years, I have worked as a Data Engineer for Sky, the broadcasting & communications giant. During this time, I have had the chance to witness and be a key part of the transition of the traditional data platform to a modern, distributed and cloud based one. I was directly involved in the following areas of the transformation:

### **GCP Migration:**

- ✓ Worked on transforming around 360 reports that process critical customer data from on-premise Netezza data warehouse to GCP's Big Query.
- ✓ Involved in transferring Oracle Golden Gate source files to GCP Cloud Storage.
- ✓ Converted SQL Server Semantic Layer DDL's to GCP's Big Query DDL.
- ✓ Data privacy solution to decouple customer identification from reporting through Data obfuscation.
- ✓ Ongoing migration of In-house Hadoop-based ETL (AbInitio) to GCP.

### **Production Support:**

- ✓ Root cause analysis and fixes for production incidents - L3 support.
- ✓ Performance monitoring and optimisation of data flows
- ✓ Analysis and solutions for Business queries and concerns.
- ✓ Review and improve design of ETL flows.
- ✓ Provided on-call consultancy and support to operations for batch recovery.

**Data Warehouse Engineer @ Citi Group**  
Chennai, India (TCS) | Oct 2013 – Aug 2018

I joined Citi group's Collections team as a data warehouse engineer straight after my engineering degree and instantly fell in love with the beautifully crafted intelligence systems with data at their core. I was directly involved in the following projects:

### **Agent Performance Scoring:**

- ✓ Built Data mart to track agent performance.
- ✓ Process customer/agent chat information from LiveEngage API into data warehouse for sentiment analysis.
- ✓ Processed JSON, Avro and XML sources in AbInitio.

### **Quality Engineering Metrics:**

- ✓ Converted HP Quality Center data into actionable OLAP for technical management reporting.
- ✓ Utilised AbInitio features like Vector functions and Meta-programming to create generic reusable solutions.

## Education

**Bachelor of Engineering @ Anna University**  
Chennai, India | Aug 2009 – Jun 2013

Gained insightful knowledge around electronic systems and networks during the rigorous four year engineering degree specialising in Electronics & Communication Systems. The following are a few highlights:

- ✓ Implemented an automated receptionist for use in small scale offices in developing countries that can't afford to employ a full time receptionist.
- ✓ Presented a concept vision system using embedded system components that can aid the blind.

**Master of Engineering @ Anna University**  
Chennai, India | Aug 2015 – Jun 2017

Completed part time alongside my job duties, this course work taught me not just the subject of communication systems but also the art of managing time. The following are some of the highlights from my Master's:

- ✓ Presented a thesis on tumour segmentation using machine learning algorithms.
- ✓ Scored well despite having to juggle both work and study finishing with a 8.07 CGPA.

## Training

As a habit, I put my mind into All things data and I have found that MOOC's are a good place to learn new & exciting technologies. Below is a sample of the coursework I have completed recently:

- ✓ Tableau @ Udemy
- ✓ PySpark @ Udemy
- ✓ Google Cloud Platform @ Coursera