

# Kuldeep Pal

DATA ENGINEER · (ANALYTICS AND INSIGHTS)

Pune, Maharashtra, India

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## Experience (≈3 years) | Tata Consultancy Services

DATA ENGINEER (ANALYTICS), (INSURANCE)

Sept 2018 - Present

- Working on **AWS Data Lake** formation to build workflows, and **Glue jobs** with **Pyspark** to manage **ETL** of data from disparate sources (TIBCO, S3) to power S3 data lakes/ **Redshift** to further use in predictive **analytics** and Querying.
- Responsible for **Data warehouse** Engineering on the cloud with Pyspark, Python, and SQL. Performed **QA for Data Quality checks** with **R/Python**.
- Working on insurance domain for **predictive analytics** with **AWS sagemaker**. Responsible for Data Analysis on the data with EDA, Pandas, plotly. Created Reports with summary out of Analysis for Insurance.

DATA ENGINEER (L2), (CAPITAL MARKET)

- Automated** manual work and **Message Queues** with **Python Scripts**. Worked closely with developers and Business teams in the resolution of technical **trading (Equity/FID)** issues along with **Automations** (troubleshooting) to Operations and QA in Production.
- Performed and publish **Root cause Analysis(RCA)** for different failure and production errors with the help of **Log analysis** and Database analysis.
- Responsible for **mentoring juniors** and for **scrum meetings**. Experience with multiple Databases, **monitoring, administering, and performance tuning**. Built Effective Dashboards with **Tableau** and shared insights across the onsite team.

## Skills

**Programming/Frameworks:** Python, C++, Pyspark, Flask, Pandas, Numpy  
**Data Analysis:** Pyspark, Numpy, Pandas, Seaborn, Plotly, Matplotlib, EDA  
**Big Data:** SparkSql, Pyspark, AWS Glue, AWS S3, Machine Learning, Statistics  
**Database/ DataWarehouse::** MySQL, SQLite, SQL, Redshift  
**Other Software/ Tools:** Jupyter, Tableau, Sagemaker, Hadoop and Kafka (Basics)

## Education

**Shri Vaishnav Institute of Tech. and Science**

Indore, Madhya Pradesh

B.E. IN COMPUTER SCIENCE AND ENGINEERING, (7.8 CGPA)

2014 - 2018

**Kinder Higher Secondary School**

Dewas, Madhya Pradesh

HIGHER SECONDARY SCHOOL, (89.6 %)

2013 - 2014

**Mar Gregorios Memorial Mission School**

Dewas, Madhya Pradesh

HIGH SCHOOL, (91 %)

2011 - 2012

## Projects

**Twitter Sentiment and Hashtag Analysis**

Data Science

SIDE PROJECT

August 2020

- Analysed** twitter data for positive, neutral and negative tweets.
- Built supervised learning model using python and **multiple NLP algorithms** to get better accuracy.

**Real/ Fake news Prediction**

Data Science

SIDE PROJECT

July 2020

- Built a model that can **differentiate between "Real" and "Fake"** news on Political dataset.
- Used classification algorithm **PassiveAggressiveClassifier** with tf-idf to get better accuracy.

**OCR with Object detection**

Computer Vision / Deep learning

BUSINESS REQUIREMENT

March 2021

- Detected layout of page with paragraphs and tables and extracted text and tables out of image.
- Libraries used: Open-CV and Detectron-2 with pytesseract with layout parser API.

**Medicare Reprotech**

Python / Django Website

ACADEMIC TEAM PROJECT

February 2018

- Medicare Reprotech is a Web Application to take reports of patients in an efficient manner so that the patient and doctor both not have to handle reports using Django and Web app libraries.

## Courses & Awards

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2021	<b>Applied Machine Learning Course</b> , Learned Machine learning and Deep learning	<i>AAIC</i>
2021	<b>Python for Data Science and ML Bootcamp</b> , Learned Data Science and Analysis	<i>Udemy</i>
2021	<b>Machine Learning A-Z Hands On Python in Data Science</b> , Learned Machine Learning with Python	<i>Udemy</i>
2021	<b>Python and SQL</b> , Certification on Problem Solving	<i>HackerRank</i>
2020	<b>GATE CSE (2019-2020)</b> , Acheived 90 percentile in GATE conducted by IIT-D	<i>National Exam</i>
2018	<b>CS50's Introduction to Computer Science</b> , edX	<i>edX - Harward</i>

## Extracurricular

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- Reading / Writing on **Quora**, **Medium**.
- Reading **Books**.
- Writing Technical / Non Technical **blogs**.
- Volunteering with **Medito Foundation for translation** of Meditation Scripts.