




# Pranshu Agarwal

## Sr. Data Analyst | (Analytics Professional)

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## SUMMARY

8.6 years of experience in Data Analytics with well-diversified roles of Technical Lead, Data Analyst, Data Engineer, Data and ETL Architect etc. Vast practical knowledge of complete life-cycle of Big Data and Data-warehouse projects with analysis, design, development, integration, implementation, maintenance and testing.

Areas of expertise include execution of data-driven solutions to increase efficiency, accuracy, and utility of internal data processing using Data Science - Machine Learning and Deep Learning.

## EXPERIENCE

### Data Analyst | Analytics Professional

#### Optum – UnitedHealth Group

 Dec 2018 – Ongoing  Gurugram, India

Define, Develop and Deliver various use cases of big data and enterprise data warehouse:

- Responsible for **end to end data pipeline** for various domain and acting as liaison between Technical and Business team.
- Developed necessary ETL pipeline using **Spark Dataframe/SQL** APIs on the fly for building the common learner data model which gets the data from HDFS/Hive and persists into HDFS.
- Automated the revenue variances analysis and optimized the **cost by 70%** using **Python and Spark**.
- **Informatics** – It is used to generate the PAF (patient assessment form) considering the large amount of data for the patients with their hospital visits. It helps the hospitals and the insurance company to proactively manage the facilities & expenditure required to fulfill the requirement.
- Exploratory data analysis and feature engineering for Machine Learning.
- Requirement analyzed and provided solution/roadmap to execute the business requirement.
- Designed complex views based on user and/or reporting requirements.

## TECHNICAL SKILLS

- **Programming Languages**  
SQL, Shells Scripting,  
Python (PySpark etc), Scala, Java

- **ETL/ELT Tool**  
Big Data – Spark and Sqoop  
Informatica

- **Database/Storage**  
HDFS/Hive, Teradata, AWS S3,  
Microsoft SQL, Oracle.

- **Big Data Ecosystem**  
Apache Hadoop  
AWS Elastic Map Reduce

- **Data Science**  
Exploratory Data Analysis, Statistics,  
KNN, Logistic Regression, Neural  
Network, Random Forest, KMeans  
Clustering etc.

- **Data Modeling**  
ER Studio, Schema Design &  
ER/Dimensional modeling, Excel

## OTHER SKILLS

- Business Domain

- US Health Care
- Banking and Finance

- Agile & Rally management

- Team Handling

- Client Interaction

- Requirement Gathering & UAT  
Support

## EXPERIENCE

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### Data Engineer | Developer – IT Applications

**Siemens Technology & Services Private Ltd.**

📅 Aug 2016 – Dec 2018 📍 Noida, India

- **SAMSIT (Siemens Advanced Maintenance System)** is used to have Streamlined Advanced and Maintenance Services for Large Gas Turbines where it calculates life time consumption of large gas turbines using different algorithms.
  - **Managed Team** of 5 based in Noida and Pune to implement and deliver the new requirement from business users.
  - **Data analyzed, modeled (Logical and Physical data model)** and **profiled** for different source involved.
  - Extensively worked in migration of data into different databases such as **HDFS, AWS**, Oracle etc. by using various tools and technologies such as shells scripting, SQLs, python, Sqoop, Spark etc.
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### Software Engineering Analyst

**Accenture Services Private Limited**

**Client: Citibank**

📅 Aug 2014 – July 2016 📍 Gurugram, India

**Citibank** is the consumer division of financial services multinational Citigroup. In addition to standard banking transactions, Citibank markets insurance, credit cards, and investment products.

- Improved performance of ETL processes and SQL queries by about 60%.
  - Worked as a core team member in establishing the **CICD** pipeline in our and other projects.
  - Coordinated with the users to discuss the new requirements and existing data issues and developed end-to-end data flow for the same.
  - Designed the **incremental approach** to process only changed records in downstream system.
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### Software Development Engineer

**Accenture Services Private Limited**

**Client: Bank of America**

📅 Feb 2013 – July 2014 📍 Bangalore, India

**Bank of America** is an American multinational banking and financial services corporation.

- Involved in complete Software Development Lifecycle Experience (SDLC) from Analysis to Development, Testing and Deployment etc.
  - Worked with Clients on **Estimates, Data Strategy & Test Environment**.
  - Worked with **Clients & Business Analysts** in forming of Application-level requirements based on higher business needs.
  - Extensively worked in **ETL process** consisting of data transformation, data validation, data sourcing, mapping, data conversion and loading along with optimizations using **Informatica Power Center**.
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## EDUCATION

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Bachelor of Engineering

**BBDNITM Lucknow**

📅 2008 – 2012 📍 Lucknow, India

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## LANGUAGE

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English, Hindi

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