

Arun Pratap Singh

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Professional Summary

Data Analyst with 4 years of experience in Data Mining, Data modeling and Data visualization techniques to convert data into business-driven insights. Expertise in SQL, Python, R, Tableau, ETL, Blockchain and Cloud Computing (AWS).

Skills

- **Languages:** SQL, Python (2.x/ 3.x), R, JavaScript, Java, HTML, CSS
- **Database:** MySQL, PostgreSQL, MS SQL Server, Oracle 11g, Amazon Redshift
- **BI/ Big Data:** Tableau (9.x/10.x), Informatica, Pentaho, Apache Spark/ Hive, Power BI, MS BI (SSRS, SSAS, SSIS)
- **Amazon Web Services:** EC2, S3, EBS, IAM, VPC, SNS, Route53, Lambda, Cloud Watch, Cloud Formation, API Gateway
- **Machine Learning:** Decision Trees, Statistics, Linear/ Logistic Regression, Data Mining/ Visualization, Clustering

Certification

- The Complete **SQL** Bootcamp Complete **Python** Bootcamp for Python 3 **Tableau** 10 A-Z for Data Science
- **AWS** Solutions Architect Essential **Math** for Machine Learning **TensorFlow** for Deep Learning with Python

Professional Experience

Data Research Analyst, Illinois Institute of Technology, Chicago, IL July 2020 – Present

- **Extract, Transform & Load** the data into **AWS S3 Buckets** using Talend Data Integration **ETL tool** in data analysis project
- Writing **SQL** queries on PostgreSQL, creating visualization in **MS Excel & Tableau** dashboards to address business questions

Data Analyst, N.C Buildwell, New Delhi, India July 2016 – May 2018

- Wrote SQL queries to fetch sales records from multiple **RDBMS systems**; built ad-hoc reports in **MS Excel/ Google sheets**
- Performed **Logistic/ Linear Regression** in Python; data visualization on **Tableau dashboards** to visualize Sales/ demographic records, found 4 factors of slowdown that **drove customer engagement by 40%**
- Designed ETL jobs (extraction & migration) using **Informatica Powercenter ETL tool**; split financial data into dimensions and facts for **Star & Snowflake Schema** in data warehousing
- Built **customer engagement features** in website & raised \$170,000 for stakeholders by increasing 75% customer retention rate
- Worked on all phases of **Data modeling, Data Mining, Data Profiling, Data Cleaning** for sales & demographics records
- Experienced in Data mining process using **Python libraries used: NumPy, SciPy, Pandas, Matplotlib** for predictive analysis
- Designed and deployed highly scalable and fault tolerant system architecture on AWS using **VPC, EC2, S3, ELB, auto scaling groups, EBS, IAM and Cloud Watch** into different availability zones

Business Analyst (Product Owner), N.C Buildwell, New Delhi, India Jan 2016 - July 2016

- Involved in requirements gathering, analysis design, development and testing phases of **software development life cycle (SDLC)**
- Created **BRD & SRS documents**, User stories, functional & Non-functional requirements to build the **Product/ Sprint Backlog**
- Worked on **Scrum agile framework** (Sprint Planning/ Review/ Retrospective) & Created Product Roadmap & Burndown Chart
- Altered database objects like **Procedures, Functions, Triggers, Indexes and views** to boost the performance of RDBMS
- Retrieved, inserted and updated data into **PostgreSQL and SQL Server** using SQL commands (**DDL, DML, DCL**)

Projects

Time Series Forecasting Analysis (Python, ARIMA)

- Performed **Time series forecasting** to predict the ROI by building **ARIMA model** with 84% accuracy to unlock insights
- Analyzed Trend, Seasonality, Cycle, Irregularities for seasonality check, Built **Autoregressive & Moving Average models**

Financial Investment Analysis (SQL, Python, Informatica, Tableau), Chicago, IL

- Performed **Linear regression** using historical datasets to find financial patterns to predict the range of investment outcomes
- Performed Exploratory Data Analysis to detect the missing the data and find the outliers that can affect the investment outcome

Cloud warehousing and Business Intelligence (MySQL, Erwin, Pentaho), Chicago, IL

- Analyzed the database designing and created logical, conceptual and physical data models in **Erwin data modeler**
- Converted unstructured data into our desirable data format and loaded into data warehouse using ETL pipelines

Blockchain trading platform (Chicago Innovation Challenge), Chicago, IL

- Developed blockchain platform with over **150 cryptocurrency's** market cap data
- Picked 7+ influencing factors of bitcoin and correlated with ML models to predict best price outcomes (**SQL, Python**)

Education

Illinois Institute of Technology, Chicago, USA May 2020

MS Information Technology Management // School of Applied Technology

Uttar Pradesh Technical University, Lucknow, INDIA June 2016

B. Tech Civil Engineering & Mathematics // School of Engineering & Mathematics