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# SANAT PARMAR

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# E D U C A T I O N

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, PUNE

**Post Graduate Diploma, Big Data Analytics,** SEP 2020- MAY 2021, Percentage: 86.17 (Grade: A+)

RAMRAO ADIK INSTITUTE OF TECHNOLOGY, MUMBAI UNIVERSITY

**Bachelor of engineering, Computer Engineering,** 2014-2018, CGPA: 8.61/10

# T E C H N I C A L S K I L L S (\*-Familiar)

* **Programming Languages:** Python, Java, R\*
* **Big Data & Machine Learning:** Spark, Hadoop HDFS, ML (e.g., scikit-learn, NumPy, pandas, matplotlib), TensorFlow\*, RASA\*
* **Databases:** Oracle Exadata, Impala, Vertica, MySQL, MongoDB, Microsoft SQL Server\*
* **Data Science and Miscellaneous Technologies:** Azure Data Factory, Azure Datawarehouse (Synapse), LogicApps, Azure Functions\*, A/B testing, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Time series, Hypothesis testing, OOP, OOD, Rest API, Git

# E X P E R I E N C E

**Bank of America: Analyst - GBS** March 2023 – Present

* + Developing Analytical Capabilities for Electronic Trading desk under Equities. Daily responsibilities include Procuring and Analyzing new datasets, Automating Data Delivery, Working with Platform and Strats team to own requirements, data acquisition, design and implementation of Analytical solutions for various Business use cases.
  + Projects Actively Working on:
    1. Proprietary ETL Framework: - Developing, Extending, adding new Data sources and setting up custom config driven batch ETLs that pulls data from different data sources like REST API Endpoints, flat files different internal databases and ingesting them in Vertica and Impala data sinks as our key datasets for different BI, reporting and Analytical applications.
    2. Trader Direct Analytics Framework: Bespoke Omni-channel config driven non-real-time Alerting framework to develop alerts and KPI Analytics for clients, trading desks and business stakeholders for different market events.
    3. Augmented Analytics: Custom Natural Language Generation Engine that builds narratives from tokens, templates and various computed statistics and delivers them as key summaries along with visualizations.
    4. Data Validation Framework: Developed for validating crucial datasets by performing rule-based checks to ensure data quality. The framework can be configured to validate any dataset, and easily apply standard checks as well as extend the framework to write and apply custom data checks on the resultant tables. Also provides avenues of reporting any failed checks through different channels.
    5. 3Forge and Optimus NLU chatbot: New data delivery systems. Leveraging both these technologies to empower and simplify user interactions with our existing systems, as well as expose our data and analytics as a service, hence enhancing to our data products.
    6. Vendor Data Dashboards: Managing extensions and enhancement to the View we create from data we obtain from different vendors like Bloomberg, RFQHub and Tradeweb as well as our internal trade platforms like Titan. The vendor view forms the backbone of the Vendor dashboards developed by the BI team and used by both traders and management extensively for trade information.
    7. Backends: Writing customized products on top of these frameworks, development and management of our backend APIs that equities team support, consulting traders with and providing solutions to different business use cases.
  + Recognition- Gold Award in Q3 of 2024 – For impactful contribution towards team's key development efforts.

**Cyient: Data Engineer – B** May 2021 – March 2023

* + **Client: Euro Garages, Australia** - Worked as Data Engineer in HR Analytics & Retail Analytics space. I designed data ingestion frameworks, managed & orchestrated ETL pipelines and developed processing engines to acquire, integrate, transform and store data from various sources. Also, worked on Machine Learning POCs, Forecasting Models and support to Business. Majorly worked on the following projects:
    1. **EG HR Analytics**: Gathering, processing, ingestion & archival historical file corpus of 48 million datapoints accrued from disparate sources (Preceda, Kronos, SuccessFactors etc.) over 7 years into the Data Warehouse for Compliance and Reporting purposes.
    2. **EG Retail Analytics:** Extracting retail data (point of sales systems, transaction, vendor data etc.) from different information systems & integrating data from existing sources on daily basis and developing data pipelines to process and ingest them into Data Warehouse. Developing Generic frameworks for robust ingestion for Retail use cases. Revamping the traditional systems for Cloud based integration, data migration & automated monitoring activities.
    3. **EG Fuel Analytics/POC:** Developed POC Prototypes for Forecasting Model for Predicting Fuel demand based on historical consumption patterns and current trends. The Models were developed using Facebook Prophet.
  + **Internal Projects – CTO’s Desk (KreativSARG)**– Worked on completion of internal POCs, assisted CTO in documenting technical capabilities for Data Science and Analytics team, worked and talent transitions during the acquisition of the business.
  + **Client: Aluminum Company of America (ALCOA), Australia** (September-2022-March-2023) - Developed & Managed Data Infrastructure using Azure Data Factory to build data capabilities for **global Automated Integrity Assessment and Risk Management System (AIARMS).**

**Smarte Inc: Associate Software Engineer** Sep 2019 – Dec 2020

* Developed applications for data audit, normalization, data enrichment and email intelligence for the Data as a Service platform “**Data Genie**”. (Stack: Java, MySQL, Hibernate, Elastic Search, MongoDB)
* Developed user management and data aggregation modules for user-facing web applications. (Stack: ReactJs, NodeJs, MySQL). Worked on process automation, performance enhancements, and bug fixes for improving the existing application.

**Venus Labs: Software Engineer -Trainee** Sep 2018 – Aug 2019

* + Developed multi-platform mobile application and designed customized plugins for the R&D project “Centrico”.

# A C A D E M I C P R O J E C T S

* + **Resumeasy:** A cloud-based web application to match candidates with relevant jobs and suggest pertinent skills. The project employs hybrid content-based recommendation system to suggest jobs and an analytical dashboard built to suggest apt skills in demand based on individual user profiles. The application leverages MongoDB as its backend database and is deployed on Heroku Cloud Platform.
  + **Vehicular Crash detection and Notification System (VCDNS):** VCDNS aimed at detecting car accidents by analyzing sensors embedded in the vehicle's dashboard and the user's smartphone, and used a fuzzified approach to process the patterns and predict the car accident combined with thresholding mechanism on the smartphone sensors. The Android application developed was used to report the accident to the emergency services, relatives and notify nearby users using geofencing techniques. Paper Published in ICAST-2018

# CERTIFICATIONS

* Microsoft Technical Associate: Security Fundamentals
* Data Manipulation Scale: Systems and Algorithms by University of Washington on Coursera (Grade Achieved: 95%)
* Supervised Machine Learning by Stanford University & DeepLearning.AI on Coursera (Grade Achived: 98%)
* Final Exam: Python for Developers by Skillsoft