**SACHIN KUMAR SAXENA**

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**Professional Experience**

**TELEPERFORMANCE PVT LTD Gurugram, India**

**Senior Analyst Business Intelligence Jun 06, 2023-Present**

* Engineered **ETL pipeline** for warehouse, deploying **DataBricks** **PySpark** for CSV data extraction and integration into **Azure Data Factory**.
* Developed an **Azure Data Factory (ADF)** pipeline responsible for fetching data warehouse files for each **ADF** pipeline.
* This pipeline runs hourly and merges the collected data into a target **International Business Reporting** table using a **Databricks** notebook on **Azure**.
* Constructed actionable **Power BI** dashboards, driving 25% sales growth and 15% customer retention enhancement through strong programming on **Python** and **T-SQL ETL/ETL** programming.
* Led **Power BI** development, employing **statistical models** and translating business goals to visualizations, improving comprehension of **Azure Data Factory, Azure Databricks for ETL, ETL frameworks, Azure Data management, and Azure Blob Storage**.

**GAVS TECHNOLOGIES PVT. LTD. Chennai, India**

**Sr Software Engineer - Data Scientist Oct 12 2022-Jun 05, 2023**

* Conceptualized and developed a data analysis system for extensive **USA hospitals** data in JSON, utilized optimized algorithms for parsing, and established fast production-ready **APIs** aiding team roadmap.
* Executed image annotation, **MRI tumor** segmentation with a web API, ensuring high data quality; also governed and secured data engineering and modelling.
* Led middle-sized **SQL and AWS** data engineering team, adept at designing/reverse engineering **AWS** medical comprehend ETL codes; deployed similar solutions with a software development kit.

**ABES ENGINEERING COLLEGE Greater Noida, India**

**Assistant Professor Jun 16, 2022 – Oct 08, 2022**

* Leveraged **Artificial Intelligence (AI) and Machine Learning** to enhance reporting for clinical trials
* Proficient in AWS/Azure (PaaS, IaaS) and hybrid models, prioritizing ELT

**SHRI RAM MURTI SMARAK COLLEGE OF ENGINEERING AND TECHNOLOGY Bareilly, India**

**Assistant Professor May 01, 2019 – Jun 11, 2022**

* Guided group of people to achieve optimization of **machine learning algorithms** for long-term vision by pioneering the analysis and processing of extensive structured and unstructured data sets.

**COLLEGE OF ENGINEERING ROORKEE Roorkee, India**

**Assistant Professor July 09, 2018 – May 18, 2019**

**RAJSHREE INSTITUTE OF MANAGEMENT AND TECHNOLOGY Bareilly, India**

**Assistant Professor Aug 14, 2013 – July 02, 2018**

**COLLEGE OF ENGINEERING ROORKEE Roorkee, India**

**Assistant Professor Jan 01, 2012 – Aug 08, 2013**

**GRD INSTITUTE OF MANAGEMENT AND TECHNOLOGY Dehradun, India**

**Assistant Professor Aug 2010 – Jan 2012**

**Education**

**Doctor of Philosophy (P) 2019-2024**

***Invertis University*  *Bareilly, India***

* Thesis topic: Study and Analysis of **Diabetic Patients**using Deep Learning

**Master of Technology 2009-2011**

***Dehradun Institute of Technology University* *Dehradun, India***

* Thesis topic: “An Integrated Method for Managing **Complex Engineering Projects** using the Extended Design Structure Matrix and Simulation

**Bachelor of Technology 2004-2008**

***Institute of Chartered Financial Analysts of India University* *Dehradun, India***

**Achievements**

* Train YOLOv8 on Azure for custom ASL Sign Language dataset, then carried out the model using **Machine Learning algorithms** for data solutions.
* Qualified in 2019 **PhD Entrance** Test at Invertise University, Bareilly, UP.
* Enhanced expertise with a May 2019 online Python course from **IIT Kanpur**.
* Improved skills through a July 2018 online **C++ course** from IIT Kanpur, UP.

**Projects**

* Guided use of **Dicom image**s in Keras, **Tensor Flow, and Python** models for comprehensive **Abdominal MRI** dataset analysis, later published **in Science Data Bank**.
* Authored **research paper** employing seven deep learning algorithms on biomedical images, achieving 92.3% accuracy.
* Applied analytics in deep learning for diagnosis of **diabetic kidney disease** via renal biopsy image analysis.