# 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 images** 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.