

# SACHIN KUMAR SAXENA

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## Professional Experience

### TELEPERFORMANCE PVT LTD

#### Senior Analyst Business Intelligence

Gurugram, India

Jun 2022-Present

- Engineered **ETL pipeline** for workforce management, deploying **Python** for CSV data extraction and integration into **Power BI**.
- Constructed actionable Power BI dashboards, driving **25% sales** growth and 15% customer retention enhancement.
- Led **BI development**, employing **statistical models**, and translating business goals to visualizations, improving comprehension of Azure data factory.

### GAVS TECHNOLOGIES PVT. LTD.

#### Sr Software Engineer - Data Scientist

Chennai, India

Oct 2021-Jun 2022

- 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

#### Assistant Professor

Greater Noida, India

Jun 2022 – Oct 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
- Published a paper on using Deep Learning for renal biopsy image analysis in diagnosing diabetic kidney disease.

### EDUNOCK PVT. LTD

#### Data Science and Machine Learning Mentor

Bengaluru, India

Mar 2022 – May 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.

### SHRI RAM MURTI SMARAK COLLEGE OF ENGINEERING AND TECHNOLOGY

#### Assistant Professor

Bareilly, India

July 2019 – Jun 2022

### COLLEGE OF ENGINEERING ROORKEE

#### Assistant Professor

Roorkee, India

July 2018 – May 2019

### RAJSHREE INSTITUTE OF MANAGEMENT AND TECHNOLOGY

#### Assistant Professor

Bareilly, India

Aug 2013 – July 2018

### COLLEGE OF ENGINEERING ROORKEE

#### Assistant Professor

Roorkee, India

Jan 2012 – Jul 2013

### GRD INSTITUTE OF MANAGEMENT AND TECHNOLOGY

#### Assistant Professor

Dehradun, India

Aug 2010 – Jan 2012

## Education

### Doctor of Philosophy (P)

*Invertis University*

2019-2024

*Bareilly, India*

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

### Master of Technology

*Dehradun Institute of Technology University*

2009-2011

*Dehradun, India*

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

### Bachelor of Technology

*Institute of Chartered Financial Analysts of India University*

2004-2008

*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 Invertis 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.