

# KUNDAN KUMAR

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## EDUCATION

### RUTGERS UNIVERSITY

Master's in Electrical and Computer Engineering

*Coursework:* Deep Learning, Machine Vision, Software Engineering, Data Structures and Algorithms, Cloud Computing and Big-Data, High Performance Computing

New Brunswick, NJ

Sept 2025 - May 2027

### SRM UNIVERSITY, KATTANKULATUR

Bachelor of Technology

Major in Electrical and Electronics Engineering

Cumulative GPA: 7.9/10

*Coursework:* Artificial Intelligence, Probability and Statistics, Mobile Application Development, Programming for Problem Solving, Management Principles, Principles of Objects Oriented Programming

Chennai, India

June 2018 – May 2022

## SKILLS

**Technical Skills:** Advanced in Python, DBMS; Proficient in SQL, NOSQL, MATLAB, Linux, ETL process; Experience in Tableau, PowerBI, AWS, Terraform, Ansible and C++; Other packages/libraries: OpenCV, YOLO, FastAPI, pytesseract, pytsx3, NumPy, pytest, psycpg2-binary, Docker and Pandas

**Languages:** Fluent in English, Telugu, Tamil, Hindi

## WORK EXPERIENCE

### Bank of America

Data Engineer I

Chennai, India

Sept 2022 - Aug 2025

- ❖ Engineered IBM Optim Archive solutions to manage very enormous historical data, reducing primary database storage costs while maintaining regulatory compliance for the data archival and life cycle management.
- ❖ Implemented the data migrations for a huge amount of data from various environments and upgraded the latest versions of database platforms( MSSQL and ORACLE)
- ❖ Administered 100s of Linux and Windows servers hosting database instances, including system monitoring, regular security patching and performance tuning, user accounts and permission across multiple environments.
- ❖ Developed automation for daily monitoring and increased bandwidth by reducing the manual task of configuration.
- ❖ Coordinate multi-country, high-traffic data processing projects, customizing solutions for banks' regulatory, business needs and clarify requirements, define project scope, and maintain compliance standards

### Telangana Power Generation Corporation

Intern

Nalgonda, India

Jan 2021 - Feb 2021

- ❖ Performed analysis of synchronous static generator excitation system while adhering to high-voltage(815 MW capacity) safety protocols in hydropower plant maintenance and troubleshooting.

## PROJECTS

### Quadruped Robot

July 2021– May 2022 |

- ❖ Collaborated in a two-person team to design and build a quadruped robot for autonomous video monitoring. Built a robot using Raspberry Pi and servo motors for autonomous video monitoring and image optimization.

### Data Warehouse For E-Commerce

Oct 2025

- ❖ Built a data warehouse and ETL project for a food delivery dataset using PostgreSQL for data analysis.

### Hybrid Edge to Cloud IoT Pipeline

Nov 2025

- ❖ Built a hybrid edge-cloud pipeline (Python, Tesseract) to process IoT image data and route analytics to PostgreSQL and MongoDB.

## LEADERSHIP & ACTIVITIES

### Bank of America

Volunteer Mentor

Chennai, India

Sept 2022 - Aug 2025

Mentored students one-on-one, creating supportive learning environments and improving student engagement in a school for children with special needs.

### SRM University

Volunteer Mentor

Chennai, India

Aug 2018 - March 2021

Organized and directed mega cultural events, managing logistics by coordinating food vendors for the college cultural fest.