# Sandeep Kumar

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## Education

**CDAC Bangalore**  **2024 − 2025**
*Joint Program with CDAC Bangalore in Quantum Machine Learning and Big Data*  *Bangalore, Karnataka*

**CHRIST (Deemed to be University), Lavasa Campus**  **2023 − 2025**
*Master of Science in Data Science*  *Pune, Maharashtra*

**Patna Science College, Patna**  **2020 − 2023**
*Bachelor of Science in Statistics*  *Patna, Bihar*

**Army School Danapur Cantt**  **2017 − 2019**
*12th Grade (CBSE)*  *Danapur, Bihar*

**Army School Danapur Cantt**  **2016 − 2017**
*10th Grade (CBSE)*  *Danapur, Bihar*

## Relevant Coursework

- Data Structures and Algorithms
- Python Programming
- Machine Learning
- Deep Learning
- Django Web Development
- Java Programming
- Probability Distributions
- Graph Theory
- Time Series Analysis
- Natural Language Processing
- R Programming

## Projects

**Potato and Tomato Plant Disease Detection (Ongoing)**  **2023 − 2025**
- Developing a machine learning model using TensorFlow to detect diseases in potato and tomato plants.
- Collecting and analyzing a dataset of plant leaf images for training a Convolutional Neural Network (CNN).
- Integrating the model into a Django-based web platform, allowing users to upload images for disease prediction.

**Credit Risk Management System**  **AI/ML Hackathon 1.0, Parul University**
- Developed a Django-based platform enabling users to register, log in, check loan eligibility, and access gold price predictions.
- Implemented models such as Decision Tree, Linear Regression, and XGBoost for managing credit risk.
- Project organized by myOnsite Healthcare in collaboration with Parul University, supported by MedinovAI and JBT Hospitality.

**Contribution to Let Us Dream Triennial International Conference 2023**  **November 2023**
- Participated in the conference at Christ University, Bangalore, held from November 3-5, 2023.
- Analyzed feedback data as part of a live project at CHRIST Infotech to derive insights for future community initiatives.

**Food Recipe Website**  **August 2023**
- Developed a fully functional website using Django, including user authentication and CRUD operations.
- Enabled seamless interaction by allowing users to create, read, update, and delete content related to recipes.

## Technical Skills

**Languages**: Python, R
**Machine Learning**: Support Vector Machines (SVM), Decision Trees, Convolutional Neural Networks (CNN)
**Web Development**: Django framework, User Authentication, CRUD Operations
**Database Knowledge**: SQL
**Developer Tools**: VS Code

## Leadership / Extracurricular

**Geo Innovation Challenge**  **July 29-31, 2024**
*Sophia Girls' College (Autonomous), Ajmer, Rajasthan, India*
- Focused on geospatial technologies to empower women.
- Collaborated with the Department of Geography and DST-NGP, Govt. of India.
- Contributed to workshops and sessions, driving innovations in geospatial technologies.

**Environmental Projects**  **2021 − 2023**
- Contributed to environmental projects, applying statistical methods for sustainability insights.
- Participated in data-driven projects, enhancing expertise in experimental design and analysis.
- Organized workshops to foster a culture of learning and environmental awareness.