

# KARAN RAJ BAGRI

## Business Analyst

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## EDUCATION

M.Tech.

Computational and Data Science

Indian Institute of Science

📅 2023 - current

🎓 9.6/10

### Relevant courses

- Numerical Linear Algebra
- Introduction to Data Science
- Data Analytics
- Machine Learning for Data Science
- Introduction to NLP
- Advanced Deep Representation Learning (ongoing)

B.E.

Information Technology

Jadavpur University

📅 2019 - 2023

🎓 8.92/10

### Relevant courses

- Database Management Systems
- Data Structures and Algorithms
- Object Oriented Systems

## ACADEMIC ACHIEVEMENTS

- GATE CS (2023): Rank 156
- 3rd in Batch (B.E.)
- JEE Advanced (2019): Rank 9256
- ISC (2019): 97.0%
- Combined Rank (2018): 1st
- ICSE (2017): 97.0%

## SKILLS

### Core Competencies

- Machine Learning
- Natural Language Processing
- Data Analytics
- Computer Vision
- C
- C++
- Python
- SQL
- PyTorch
- Pandas
- Matplotlib
- Transformers (Hugging Face)

## WORK EXPERIENCE

### Intern Analyst

#### Wells Fargo

📅 June 2022 - August 2022

📍 Hyderabad, India

- Worked on building the backend for a stock market charting and prediction application.
- Used NodeJS, Firebase, Express, Tensorflow, Keras, Jest etc. for the same.

## PROJECTS

- Low data federated learning for medical image segmentation.
- Training and evaluating different GANs to generate images of a variety of animals.
- Defined and tested for essential number properties to be exhibited by LLMs.
- Translated Indian names from English to Hindi using character-level conditional language models.
- Modelled first names of Indians using character-level language models.
- Text-based sentiment classification using various techniques.
- Trained a vision transformer and experimented with its architecture on the classification task on the CIFAR-10 dataset.
- Detected communities of friends on Facebook using the spectral decomposition algorithm and Louvain's algorithm.
- Predicted the overall impact of pathway regulations on the overall survival time of a cancer patient.
- Used various classifiers (Naive Bayes, Decision Tree, Random Forest, SVM, HMM, etc.) for solving the classification problem on various datasets (Iris, Wisconsin Breast Cancer, Ionosphere, etc.), computing various metrics like AUC for every classifier.
- Implemented a CNN and compared its performance with existing classic models (VGG-16, ResNet-50, GoogleNet, etc.) on various datasets (CIFAR-10, MNIST, EmoDB, etc.).
- Applied various partition-based, hierarchical, and density-based clustering algorithms and compared their performances on Wine and Iris datasets.