

SUCHITA SHARMA

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EDUCATION

Northeastern University, Boston, MA Sept 2023 - Aug 2026
Master of Science in Data Science - Khoury College of Computer Sciences
Related Courses: Natural Language Processing, Machine Learning, Human Computer Interaction

Savitribai Phule Pune University, Pune, India Aug 2017 – May 2021
Bachelor of Engineering in Information Technology
Related Courses: Data Structures, Cloud Computing, Web Development, Distributed Systems, Data Science

TECHNICAL SKILLS

Languages and Databases: Python, R, SQL, Shell Script, Java, HTML, CSS, Figma
Technologies and Tools: Pandas, ScikitLearn, Numpy, Matplotlib, Seaborn, PyTorch, Docker, Git, Sklearn, Tableau
Cloud Computing: Amazon Web Services (AWS), Google Cloud (GCP)

WORK EXPERIENCE

Flentas Technologies Pvt Ltd, Pune, India Jan. 2021 – Aug. 2023
Cloud Engineer

- Optimized existing cloud configurations leading to improved application deployment speeds by an impressive rate of 40%, enhancing overall project timelines across diverse client engagements while maintaining budget compliance at all levels.
- Implemented streamlined **CI/CD pipeline** that enhanced code integration times by reducing build errors to fewer than 5 incidents monthly, leading to more reliable deployments.
- Designed and optimized **SQL databases / Amazon RDS** to improve query performance, reducing response times and ensuring seamless data retrieval for business-critical applications.
- Coordinated with cross-functional teams to develop and deploy cloud solutions that directly supported three major business objectives, resulting in enhanced project efficiency and smooth workflows across departments.

ACADEMIC PROJECTS

Knowledge Distillation Sept 2024 - Dec 2024

- Teacher Model: Framework from a research paper for the **multilingual case model based on BERT**. Trained in 104 languages, using cased tokens to maintain multilingual robustness.
- Fine-Tuning: Applied **transfer learning techniques** to fine-tune the BERT-based multilingual model on domain-specific datasets, improving accuracy and contextual understanding for targeted translation tasks.
- Student Model: Implemented a **sequence-to-sequence (seq2seq) RNN** for Spanish-to-English translation. Leveraged RNNs to effectively handle and retain longer sequences, ensuring accurate translations.

Hallmarks of Alzheimer's Disease May 2024 - Aug 2024

- Conducted comprehensive analysis to pinpoint critical proteins exhibiting notable variations among Alzheimer's patients, categorized by age groups: under 75 years, between 75-85 years, and over 85 years.
- Applied **feature engineering techniques** to create new predictive variables, improving model accuracy and revealing deeper insights into demographic mortality trends.
- Modeling Techniques: **Support Vector Machine** was identified as the best performing model, offering high accuracy and low error rates.
- Generated precise graphs illustrating key trends related to Alzheimer's symptoms by age group and different identified proteins.

Road Traffic Mortality Analysis Jan 2023 - Apr 2023

- Uncovered three primary drivers behind reducing mortality metrics: access improvements, preventive care initiatives, and lifestyle changes; this initiative simplified focus areas for future research.
- Feature Engineering:** Created and selected meaningful features, such as age-adjusted mortality rates and socioeconomic factors, to enhance model performance and reveal deeper insights into demographic trends.
- Data Preparation and Modeling: Cleaned dataset for accuracy and used **regression analysis** to predict death rates based on sex and year.
- Developed detailed visual representations of data using ggplot2 and tidyverse, producing over 15 distinct graphs and charts that clearly illustrated complex findings related to demographic patterns in death rates.