

# DHANANJAY SHARMA

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## EDUCATION

**Stony Brook University**, Stony Brook, NY

*Master of Data Science*

**Coursework:** Probability, Data Analysis, Natural Language Processing, Data Management, Statistical Learning, Visualization

**Indian Institute of Technology Dhanbad**, Dhanbad, Jharkhand

*Integrated Master of Technology in Mathematics & Computing*

**Aug 2024 - Present**

GPA: 4.0 / 4.0

**Jul 2013 – May 2018**

GPA: 8.75 / 10.0

## EXPERIENCE

**REGART (Intelligent Solutions for Regulatory Compliance)**, Amsterdam

*Full Stack Developer, Product Development*

**Mar 2020 – May 2023**

- Led **architecture design** for a web app used by 500+ employees in European financial institutions, achieving 100% compliance with regulatory norms.
- Built data models for 1,000+ regulatory documents in **JSON**, streamlining storage and retrieval processes.
- Developed a **version history** feature for tracking amendments across 200+ articles, boosting **UI** navigation by 40%.
- Integrated 15+ **APIs** to enhance **frontend-backend communication**, reducing system response time by 30%.

**CGI (IT and Business Consulting Services)**, Bangalore, India

*Full Stack Developer, Product Software Development and Maintenance*

**Aug 2018 – Aug 2019**

- Contributed to a web portal for 1,000+ finance executives trading spot, futures, forwards, and swaps with multi-currency support.
- Generated **backend services** for **API** data retrieval and live currency streaming, enhancing user experience.
- Structured PoC for a multi-window trading block swap function, increasing interface responsiveness by 20%.
- Assimilated 20+ frontend components using **J2EE**, **Spring**, **Angular**, and **RESTful** services, ensuring stable data flow.

## PROJECTS

**Stock Market Price Prediction System** (Skills: **Python**, **Scikit-learn**, **TensorFlow**, **Streamlit**)

**Jan 2024 – Mar 2024**

- Engineered a **ML** application forecasting next-day stock prices using **Random Forest models** with historical market data.
- Implemented **data preprocessing pipeline** and technical analysis with **moving averages** and trend identification.
- Constructed an interactive **Streamlit web app** displaying predictions and visualizations for investment decision support.
- Utilized **pandas**, **matplotlib**, and **joblib** for **data manipulation**, **visualization**, and **model persistence**.

**Online Travel Reservation System** (Skills: **SQL**, **MySQL**, **E-R Diagram**)

**Aug 2024 – Dec 2024**

- Designed a relational database in **MySQL** to manage 10,000+ records (airlines, airports, flights) with optimized **SQL** queries.
- Created **E-R** diagrams, enforced referential integrity, and executed complex **SQL** transactions for bookings and auctions.

**Data Dimension Explorer** (Skills: **Python**, **Flask**, **D3**, **JavaScript**, **HTML**, **CSS**)

**Aug 2024 – Dec 2024**

- Synthesized an interactive data visualization **dashboard** that performs **Principal Component Analysis (PCA)**, **Multi-Dimensional Scaling (MDS)**, and **K-means Clustering** on the Adult Census Income dataset, enabling exploratory analysis of demographic and financial attributes.
- Configured using **D3.js**, **Flask**, **Python**, **HTML5**, and **CSS3**, with a responsive interface featuring **scree plots**, **elbow plots**, **biplots**, **MDS plots**, and **scatter plot matrices** to reveal meaningful patterns in multidimensional data.

**Multilingual Document Summarization System** (Skills: **Python**, **Transformers**, **Pandas**, **Torch**, **Plotly**)

**Aug 2024 – Dec 2024**

- Executed a multilingual summarization system using **BART** and **PEGASUS**, achieving **ROUGE-1** (0.48, 0.44) and **BLEU** (0.38, 0.42). Assembled pipelines for preprocessing, translation, and evaluation, deploying a web application for accessible cross-lingual summarization and model comparison.

**Pretrained Language Models for Sentence Classification** (Skills: **Python**, **Transformers**, **PyTorch**)

**Aug 2024 – Dec 2024**

- Fabricated a classifier with frozen **BERT [CLS]** features, achieving ~96.4% accuracy on DBpedia. Evaluated pooling techniques, fine-tuned **BERT** layers, and optimized classifiers using **PyTorch** and **HuggingFace** for improved performance.

## SKILLS

**Languages:** Python (NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, Keras), SQL, R, C++, Java, JavaScript, MATLAB

**Big Data & Machine Learning:** OpenCV, Spark, Kafka, Excel, Git, AWS, Regression, Classification, XGBoost, Random Forest

**Technologies:** Kubernetes, Docker, Power BI, Tableau, Hadoop-MapReduce, MySQL, PostgreSQL, MongoDB, A/B Testing

**Data Science Pipeline:** Warehousing, Cleansing, Wrangling, Visualization, Modeling, Interpretation

**Certifications:** Angular-Java Spring Full Stack, Machine Learning (Stanford University), Data Analytics (Google)

**Soft Skills:** Problem-Solving, Critical Thinking, Collaboration, Communication, Teamwork, Adaptability, Attention to Detail