

## PROFESSIONAL EXPERIENCE

### Data Scientist

FireHose (Remote, New Jersey, United States)

- Orchestrated a cutting-edge project named “Multi-Agent Conversational AI Implementation” using AutoGen to create a conversational AI framework that allows for the collaborative execution of tasks through automated group chats. This involved integrating conversational agents with advanced AI models (GPT-4) to facilitate real-time problem-solving and task management. My role included coding in Python, integrating various AI APIs, and setting up a dynamic environment for both tool-based and human agent interaction, showcasing my ability to leverage AI for innovative solutions and streamline complex workflows.
- Skills applied: Python, AI/ML Integration (GPT-4), API Utilization, Collaborative Software Development.

### Software Engineering Intern

New Jersey Institute of Technology - Dept of Web System Design (Newark, New Jersey, United States)

- Led the development of a comprehensive food store website, from market analysis to deployment, showcasing a blend of analytical and technical skills.
- Skills applied: Figma, NextJS, Automated Testing (Playwright), GDPR compliance, Google Analytics, Mailchimp, GitHub. [View Project](#)

### Data Analyst - Sustainability Research Assistant

New Jersey Institute of Technology- Dept of Sustainability (Newark, New Jersey, United States)

- Conducted data analysis and visualization to identify sustainability and educational gaps, influencing strategic decisions.
- Skills applied: Pandas, Numpy, Power BI. [View Report](#)

### Data Analyst

IndiaDotCom Pvt Ltd (Noida, Uttar Pradesh, India)

- Developed an image-based search engine by training Resnet-50 on the company’s dataset and deploying it via a Flask REST API, enabling users to search products using images.
- Skills applied: Flask, REST, Resnet, transfer learning, KNN, Unsupervised Learning [View Project](#)
- Created an "Abstractive Text Summarizer" using 'Bidirectional and Auto-Regressive Transformers', which was later deployed for news article summarization saving 30% of staff's time on manually summarizing the text.
- Skills applied: Flask, Resnet-50, Transformer models from Hugging Face. [View Project](#)

## SELECTED PROJECTS

### Telecom Churn Prediction Using Advanced Machine Learning:

- Predicted customer churn, optimizing a telecom's customer retention strategy.
- Skills applied: Numpy, Pandas, Matplotlib, Seaborn, SKlearn, SMOTE, RandomForestClassifier, PCA. [View Project](#)

### Wine Quality Prediction using Spark on AWS:

- Developed a scalable Spark-based model to predict wine quality, demonstrating cloud and big data analytics capabilities.
- Skills applied: Spark, AWS EC2, Docker, Java, MLlib.

### Credit Card Fraud Detection:

- Engineered a model to detect credit card fraudulent transactions as it occurs, enhancing financial security.
- Skills applied: XGBoost, RandomForest, Gradient Boosting, SMOTE.. [View Project](#)

## EDUCATION

### • MS in Data Science (3.83/4.0), New Jersey Institute of Technology

**Relevant Coursework:** Applied Statistics, Probability, Inferential Statistics, Hypothesis Testing, A/B testing, ANNOVA, Big Data Analytics, Spark, Scala, Open CV, Semantic Search, Linear Regression, Ridge Regression, Lasso Regression, Reinforcement Learning, Regularization, Logistic Regression, Decision Tree, Boosting, Random Forest, Time Series Analysis, Principle Component Analysis, Clustering, Artificial Neural Network, Convolution Neural Network, Recurrent Neural Network, Natural Language Processing, Named Entity Recognition, Database Management System Design, SQL, Star Schema, Data Modelling, ETL, Web System Development, Agile, Cloud Computing, AWS, Data Analytics with R.

### • BS in Data Science (3.4/4.0), International Institute of Information and Technology Bangalore

## CORE SKILLS & TOOLS

- Frameworks React, NextJS, NodeJS, Flask, Pandas, Numpy, Elastic Search, Autogen, Matplotlib, Seaborn, Tensorflow, Pytorch, Keras, Scikit-Learn, OpenCV, Beautiful Soup
- Programming Languages Python, SQL, JavaScript, HTML, CSS
- Clouds AWS
- Analytical Tools Tableau, Power BI, R, Excel
- ML/DL Algorithms Linear Regression, Logistic Regression, Decision Tree, Random Forest, KNN, Gradient Boosting, XG Boosting, Principle Component Analysis, Clustering, Convolution Neural Network, Recurrent Neural Network, Artificial Neural Network
- Developer Tools VS Code, Jupyter Notebook, Command Line, Git, Github, Vercel, Playwright, Poetry, Docker.