

VYANJANA KISHANIYA

India | +918458831999 | vyanjana.kishaniya@gmail.com | [linkedin.com/in/vyanjana-kishaniya/](https://www.linkedin.com/in/vyanjana-kishaniya/)

SUMMARY

As an accomplished data scientist, I possess a profound and extensive grasp of machine learning, with a specialisation in Natural Language Processing. Motivated to use data and technology to deliver meaningful business insights to assist in making better decisions.

Specialties: Supervised and Unsupervised Machine Learning, Recurrent Neural Network, Transformer Models, Text Mining, Version Control, Problem Solver, CI/CD.

EDUCATION

University of Colorado Denver, GPA: 3.64/4.0
Computer Science (Master of Science)

Denver, Colorado, USA
May 2023

University Institute of Technology, CGPA: 7.16/10
Information Technology (Bachelors in Engineering)

Bhopal, India
June 2018

SKILLS

Technologies: Python, SQL, Snowflake, AWS, TensorFlow, Spark, Git, Jenkins, Pandas, NumPy, Matplotlib, Scikit-learn.

PROJECTS

Tata Consultancy Services

Software Developer (Nissan motors)

Gurugram, India

Oct 2023 - .Present

- Developed python code for backend, created RESTful APIs using AWS services such as Lambda, API Gateway, and integrating seamlessly with Snowflake for efficient data handling and storage.
- Used Git as version control systems to manage code repositories and track changes made to the software. Also, done proper branching, merging, and code review processes to maintain code integrity.
- Deployed and managed applications on AWS infrastructure, leveraging services like EC2, Lambda, and Elastic search.
- Optimised database queries and performance for efficient data retrieval and manipulation. Monitored, troubleshot, and resolved backend issues, ensuring high availability and reliability of systems.
- Collaborated with frontend developers to integrate backend services and contribute to a seamless user experience.

Office of Information Technology

Student Assistant (Part-time)

Denver, Colorado

Aug 2021– May 2023

- Employed indexing to optimise various SQL database processes; server performance was increased by 21%.
- Implemented database load balancing to enhance server response time and improve Search Engine
- Designed architecture and developed RESTful APIs for new features, utilised by 36% of university employees.
- Developed a Virtual Teaching Assistant using different BERT Language Model to assist students using Python.
- Deployed ML models using ML flow and analysed its performance to fine-tune hyper parameters for optimisation.

Grant Validator

Master of Science, Fall 2022

- Designed a model to predict the probability of a research grant to be approved by the National Institutes of Health.
- Implemented a NLTK Word Tokenizer to effectively remove stop words and utilised TF-IDF to calculate the score for each word to estimate the likelihood for grant approval. Used three machine learning classifiers: Naive Bayes, Support Vector Machine and Random Forest. With 97% accuracy, the random forest classifier outperformed.

Classification of protein from human cells

Master of Science, Fall 2022

- Implemented a highly efficient classifier specifically designed for protein images, successfully achieving an impressive accuracy rate of 94% with a minimal loss of only 10%. Evaluated different Neural Network architectures such as Convolutional Neural Network, Feed Forward Network, Recurrent Neural Network and Generative Adversarial Networks to achieve high precision; used Dense Convolutional Network architecture for classification for getting desired outcome

Tata Consultancy Services

Software Engineer (CVS Pharmacy)

Gurugram, India

Aug 2019– Aug 2021

- Collaborated in SDLC, including requirement, design, development, testing, deployment and maintenance.
- Participated in code reviews to maintain code quality and foster knowledge sharing within the team.
- Documented software design, implementation, and maintenance procedures for future reference.
- Deployed software applications, ensuring a smooth transition from development to live systems.
- Created high and low-level design documents that outline the software components, modules, data flow, and interaction between different parts of the system. Also learnt the agile methodology for a better software development approach.

Tata Consultancy Services

Gurugram, India

- Configured and managed network interfaces, IP addresses, routing tables, and firewalls. Set up network services such as DNS, DHCP, and VPN connections. Wrote shell scripts and python scripts for automation.
- Handled the installation and initial configuration of Linux distributions on servers or workstations. Set up user accounts, established network connectivity, and configured system parameters.
- Implemented backup and recovery strategies to safeguard critical data and maintained business continuity through regular backups, restore testing, and management of backup storage, also developed test automation frameworks in collaboration with rest of the team.
- Optimized system performance by analyzing resource utilization, identifying bottlenecks, and fine-tuning system parameters. Also, adjusted kernel parameters, optimized disk I/O, tuned network settings to enhance overall system performance.