

Kartik Nigam

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SKILLS SUMMARY

- **Languages:** R Programming, SQL, Python, Java, C++
- **Tools/Platforms:** R Studio, Tableau, MS Excel, MS Powerpoint, MySQL, VS Code, BlueJ, GitHub
- **Technical Skills:** Machine Learning, Predictive Analysis, NLP, LLMs, Prompt Engineering, Model Fine-Tuning, Exploratory Data Analysis, Data Cleaning, Data Visualization
- **Soft Skills:** Leadership, Problem-Solving Skills, Team Player, Project Management, Adaptability, Strategic Planning, Data-Driven Decision Making

INTERNSHIPS

- **Personify** | Bengaluru Aug'24 – Sept'24
Data Science Intern
 - Applied **machine learning**, **NLP** and **data analysis** techniques to solve business problems.
 - Conducted **prompt engineering** to optimize AI model responses for business use cases.
 - Utilized **Python** and **R** for data preprocessing, model training and statistical analysis to ensure accurate data-driven decision-making.
- **Otaku Threads** | Satna Nov'23 – Jan'24
Data Analyst Intern
 - Implemented data analysis techniques to extract insights and support data-driven decision-making.
 - Developed **visualization** and **dashboard** creation using Excel, SQL, and R; conducted **Exploratory Data Analysis (EDA)**; collaborated to improve data collection and reporting.
 - Optimized automation to streamline workflows and enhance data integrity for improved efficiency and accuracy.

PROJECTS

- **Diabetes Risk Prediction: A Machine Learning Approach** Nov'24
 - Implemented multiple **machine learning** algorithms including K-Nearest Neighbours (KNN), Naive Bayes, Decision Trees, and Neural Networks to analyse a dataset and predict outcomes.
 - Optimized model performance by applying techniques like **cross-validation** and **parameter tuning** for each algorithm, achieving improved accuracy and robustness.
 - Evaluated model performance using **confusion matrices** and **ROC curves** in R to compare algorithm results and select the best-performing model for the dataset.
 - **Tech:** R, KNN, Naive Bayes, Decision Trees, Neural Networks, Cross-Validation, ROC Curves.
- **LLM-Based Spam SMS Classification** Nov'24
 - Built an **NLP-driven spam detection model** using **text mining techniques** like cleaning, stemming, and case conversion.
 - Extracted features using **Document-Term Matrix (DTM)** and visualized frequent terms with **word clouds**.
 - Implemented **machine learning models** on training and testing sets for effective spam detection.
 - **Tech :** R, Text Mining, Document-Term Matrix, SnowballC, WordCloud, Machine Learning.
- **Courier Management System** June'24
 - Developed a **data-driven shipment management system** using linked lists for efficient **real-time record handling**.
 - Implemented secure **user authentication** to prevent unauthorized access and ensure data privacy in the system.
 - Optimized **data retrieval** and **processing**, ensuring minimal latency in record management.
 - **Tech:** C++, Linked List, Data Structures & Algorithms, Object-Oriented Programming (OOP), File Handling, Data Security, Optimization Techniques, Dynamic Memory Allocation, I/O Streams.

CERTIFICATIONS

- Cloud Computing | NPTEL Oct'24
- Logic Building, Programming and Data Structures | LPU Aug'24
- ChatGPT for Beginners: Save time with Microsoft Excel | Coursera July'24
- ChatGPT Advanced Data Analysis | Coursera July'24
- ChatGPT for Beginners: Save time with Microsoft Excel Skills for Business | Coursera May'24

ACHIEVEMENT

- Solved 200+ DSA Problems across different platforms like LeetCode/ GeeksForGeeks.

EDUCATION

- **Lovely Professional University** Phagwara, Punjab
B.Tech- Computer Science and Engineering; **CGPA: 8.88** Pursuing
- **Christukula Mission Higher Secondary School** Satna, Madhya Pradesh
Intermediate; **Percentage: 92.75%** March'21 – March'22
- **Christukula Mission Higher Secondary School** Satna, Madhya Pradesh
Matriculation; **Percentage: 89.8%** March'19 – March'20