Nimish Rao

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Technical Skills

- **Languages:** Java 8, Python, SQL
- **Tools/Technologies:** Tableau, Excel, GIT
- **Libraries/Frameworks:** Scikit-learn, TensorFlow, PyTorch, Matplotlib, OpenCV
- **Other:** MATLAB

Education

VIT Bhopal University — Bhopal, MP
B.Tech Computer Science Engineering with spec. in AIML - 8.01 CGPA — *Sept. 2022 – June 2026*

Sai Shree International Academy — Ratlam, MP
Class XII - 81.8% — *April 2020 – May 2021*

Sai Shree International Academy — Ratlam, MP
Class X - 91.2% — *April 2018 – March 2019*

Project

Text Summarization System
Python, Hugging Face, Transformers, FastAPI, GitHub Actions, Docker

- Developed an end-to-end text summarization application using Transformer models and NLP preprocessing techniques.
- Built a scalable backend using FastAPI for seamless prediction handling and real-time API responsiveness.
- Integrated continuous deployment workflows using GitHub Actions and containerized the application with Docker.
- Configured cloud infrastructure to host the REST API with consistent uptime and monitoring support.
- Explored model performance by fine-tuning pretrained transformers and adjusting summarization strategies.
- Implemented batch processing support and response caching mechanisms to improve system throughput.
- Maintained detailed documentation for deployment, API endpoints, and usage guidelines.

Breast Cancer Detection Using Machine Learning
Scikit-learn, Pandas, Seaborn, Classification, Model Evaluation

- Designed and implemented a classification pipeline for breast cancer diagnosis using multiple machine learning models.
- Performed feature engineering, outlier handling, and scaling techniques to enhance model accuracy.
- Conducted in-depth analysis of model predictions and confusion matrices to assess sensitivity and specificity.
- Used various cross-validation techniques to validate consistency across different datasets.
- Created insightful visualizations of model performance and feature correlations to aid interpretation.
- Wrote modular Python scripts for preprocessing, model training, and result reporting.

Retail Sales Data Analysis
Python, Pandas, Excel, Matplotlib, Seaborn

- Analyzed sales datasets to uncover performance patterns, seasonal trends, and business insights.
- Applied data transformation and cleansing procedures to prepare datasets for analytical modeling.
- Generated visual reports and graphs using Matplotlib and Seaborn for strategic analysis.
- Created Excel dashboards to summarize monthly and quarterly sales figures.
- Formulated actionable insights related to product performance and customer preferences.
- Investigated anomalies and data inconsistencies using exploratory data analysis techniques.

Certification

- Artificial Intelligence powered by Google developers (SmartInternz, April 2025)
- Machine Learning with Python Machine Learning with Python (Coursera, May 2025)
- HTML, CSS and Javascript for Webdevelopers(Coursera, December 2023)

Extracurriculars & Interests

- **Responsibilities:** Core Member, MUN Club

- **Interests:** Photography

- **Languages:** Hindi, English, Japanese

Achievements

- Successfully spearheaded the organization of **VITB MUN'24** with **50+** delegates.