# DHRUVIT NAVADIYA

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## Education

**G.H. Patel College of Engineering & Technology** Anand, India
*B.Tech - Computer Science and Engineering (IoT)* *Aug 2021 – May 2025*

## Experience

**Stypix** Jan 2025 – May 2025
*Data Science And Machine Learning Intern* *Ahmedabad, India*

- Collaborated with the data science team to build predictive analytics models for healthcare use-cases.
- Developed and evaluated a diabetes prediction model using supervised learning techniques in Python.
- Applied data wrangling, outlier detection, and feature engineering on real-world patient datasets.
- Automated end-to-end model pipeline: data preprocessing, model selection, training, and evaluation.
- Utilized SQL to perform advanced data queries and extract meaningful business trends.

## Projects

**Portfolio Project – RAG Chatbot with FastAPI** | *FastAPI, LangChain, Hugging Face, MongoDB, Render, Python* GitHub

- Built a Retrieval-Augmented Generation (RAG) chatbot integrated with a personal portfolio project.
- Developed a FastAPI backend to manage chatbot requests and serve APIs efficiently.
- Integrated MongoDB to store conversation history and enable fast retrieval.
- Deployed the application on Render for scalable, production-ready hosting.
- Documented the project on GitHub for automation, collaboration, and reusability.

**Diabetes Prediction** | *Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn* GitHub

- Developed a machine learning model using the Pima Indians Diabetes Dataset to predict diabetes likelihood, including preprocessing steps like handling missing values, feature scaling, and exploratory data analysis.
- Implemented and compared multiple classification algorithms (Logistic Regression, Random Forest, KNN), optimizing performance through hyperparameter tuning and cross-validation.
- Achieved high accuracy and precision; visualized data insights and model evaluation using heatmaps, ROC curves, and confusion matrices.

**Loan Prediction Model** | *Python, Pandas, NumPy, Scikit-learn, Matplotlib* GitHub

- Developed a classification model to predict loan approval status based on customer demographic and financial data.
- Performed data cleaning, feature engineering, and handled missing values using imputation techniques.
- Applied Logistic Regression, Decision Trees, and Random Forest algorithms to evaluate prediction accuracy.
- Used confusion matrix and classification reports to assess model performance and refine based on business objectives.
- Presented insights through visualizations showing key factors influencing loan approval decisions.

## Technical Skills

**Languages**: Python, SQL, C, C++, JavaScript, HTML/CSS

**Frameworks & Tools**: FastAPI, Git, Jupyter Notebook, VS Code, Google Colab, Render

**Libraries**: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, BeautifulSoup, LangChain, Hugging Face

**Databases**: MongoDB, SQL

**Concepts**: RAG Applications, Supervised & Unsupervised Learning, EDA, Feature Engineering, Statistical Analysis, Data Wrangling, Data Cleaning

**Visualization Tools**: Excel, Power BI

## Honors And Achievements

**Introduction to Devops** View
**Data Visualization with Python** View
**Introduction To Structured Query Language(SQL)** View
**C++ For C Programmers** View