

VISHAL

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PROFILE SUMMARY

Driven aspiring **Data Science Engineer** with a passion for tackling real-world problems through technical skills. Pursuing a B.Tech in Computer Science and Engineering (graduation 2025) at Rayat Bahra University. Proficient in data analysis, machine learning, and software development. Seeking a data science internship to gain hands-on experience and contribute to innovative projects.

EDUCATION

- **B.Tech - Computer Science Engineering** (June 2021 - June 2025)
 - Rayat Bahra University, Punjab
- **Professional Certificates**
 - IBM Data Science Professional Certificate
 - Machine Learning and Deep Learning – Fundamentals and Applications(NPTEL)
 - Full Stack Development Program (Excellence Education)
 - Full Stack Web Development (MCP Technology)

PROJECTS

- **Resume Categorizer**
 - Developed an NLP-based machine learning model to classify resumes into categories like Software Engineer, Data Scientist, and Marketing using TF-IDF vectorization and label encoding.
 - Implemented text preprocessing techniques to clean resume data, removing irrelevant details like stopwords and special characters.
 - Enhanced recruitment efficiency by automating the resume filtering process for HR teams through accurate classification models.
- **Spam Comment Detection**
 - Built a machine learning model to identify spam comments using NLP techniques like tokenization, stopword removal, and TF-IDF vectorization.
 - Developed a Logistic Regression model for classification, with options for Naive Bayes and Random Forest for improved performance.
 - Achieved high accuracy in detecting spam comments, enhancing content moderation efficiency.
- **Credit Card Fraud Detection**
 - Developed a machine learning model to identify fraudulent transactions using an imbalanced dataset with techniques like SMOTE and undersampling for class balance.
 - Trained and evaluated multiple models, including Logistic Regression and Random Forest, using metrics like Precision, Recall, F1-Score, and AUC-ROC
 - Enhanced fraud detection accuracy by applying feature scaling, correlation analysis, and cross-validation for model optimization.
- **Student Management System**
 - Designed and developed a scalable backend system to efficiently manage student information and processes.
 - Utilized Python and MySQL to create a robust and reliable database solution.
 - Implemented efficient data retrieval and manipulation techniques to optimize system performance.

SKILLS

- **Programming Languages and Tools:** Python, Git
- **Data Science & Machine Learning:** Pandas, Scikit-learn, Seaborn, Matplotlib, NumPy
- **Databases:** MySQL, MongoDB
- **Data Analysis and Engineering:** Data Analysis, Data Cleaning, Feature Engineering, Model Evaluation, Machine Learning Algorithms