

RACHNA PATIL

+91 8793993823
2K24/DSC/27

prachnapatil@gmail.com
[Github](#) | [Linkedln](#)

EDUCATION			
M.TechH(Data Science)	2024-2026	Delhi Technological University, New Delhi	8.08
B.Tech. (Information Technology)	2017-2021	Madhav Institute of Technology & Science, Gwalior, M.P	70.4 %
Maharashtra State Board (Class XII)	2017	St.Paul Nagpur, Maharashtra	67.54 %
AISSCE/CBSE (Class X)	2015	DPS Digboi, Assam	7.6 CGPA
WORK EXPERIENCE / INTERNSHIPS			
Software Engineer, HCL, Nagpur LINK			October 2021 – 2024
<ul style="list-style-type: none">Ensured stability of MyView and global financial applications through root cause analysis, SQL debugging, and issue resolution.Collaborated with backend teams (MQ, Oracle, Cloud) for seamless data flow and infrastructure fixes.Led disaster recovery automation and coordinated failovers with DB/Network teams.Monitored system health using AppDynamics and Splunk, optimizing EOD/SOD batch jobs.Managed deployments, authored SOPs, and coordinated with QA, PMO, and vendors for incident resolution and enhancements.			
ACADEMIC PROJECT			LINK
Text Summarization Using NLP and Deep Learning Python LINK			
<ul style="list-style-type: none">Built a text summarization system capable of generating concise summaries from lengthy texts using state-of-the-art NLP techniques.Implemented both extractive and abstractive approaches using Seq2Seq models with attention and transformer-based models(Large Language Model) like BERT and T5.Preprocessed text using tokenization, stopword removal, and lemmatization, followed by sequence padding for uniform input.Trained models on datasets like CNN/DailyMail, and evaluated performance using ROUGE and BLEU metrics.Enabled efficient information consumption and improved readability for long-form content through AI-generated summaries.			
Infant Cry Detection Using CNN Python LINK			
<ul style="list-style-type: none">Developed a CNN-based supervised learning model to classify infant cries from audio signals.Extracted key sound features to improve detection accuracy and assist in early infant care.Enhanced model performance through data preprocessing and hyperparameter tuning.			
Customer-Churn-Prediction Python LINK			
<ul style="list-style-type: none">Designed and developed a machine learning pipeline to predict telecom customer churn using structured customer data.Performed data preprocessing, feature engineering, and handled class imbalance using SMOTE techniques.Implemented Decision Tree and Random Forest models to identify key churn drivers and evaluate performance using precision, recall, and F1-score.Visualized churn distribution and customer behavior using seaborn and matplotlib to derive actionable business insights.Enabled proactive retention strategy development through predictive analytics.			
TECHNICAL SKILLS			
LANGUAGE	COURSES/ LIBRARY	TOOLS	IDE
C++, C, Python , Oracle SQL	Operating System, DBMS, DSA, ML, DL, NLP, DPA, Numpy, Pandas, Matplotlib, Seaborn, Tensorflow, PyTorch	Dynatrace, Splunk, Cloud Controller, ServiceNow Ticketing Tool, Excel, Microsoft Office	Visual Studio, Jupyter Notebook , Google Collab
ACADEMIC ACHIEVEMENTS AND AWARDS			
<ul style="list-style-type: none">Solved 160+ programming problems, strengthening DSA proficiency.1st place in Regional Badminton and Photography; 1st, 2nd & 3rd place in Nukkad Natak at City and National levels.Secured 80% (Elite + Silver medal) in the course Emotional Intelligence(NPTEL) by IIT, Kharagpur.			
POSITIONS OF RESPONSIBILITY			
<ul style="list-style-type: none">Teaching Assistant under Ms. Priya Singh (Assistant Professor)Active member of Rashtraay Nukkad Natak Club, Art Club, CSE & IT Technical Club (ACM), and Holistic & Health Club at MITS, contributing to cultural, technical, and wellness initiatives.			
EXTRA-CURRICULAR ACTIVITIES			
<ul style="list-style-type: none">Certifications: Certified by <i>The Art of Living</i>; completed Self-Defense Workshop with 50+ participants (ISTE, MITS).Leadership: Teaching Head at <i>Pranyas Foundation (Gwalior)</i>, led 10+ volunteers and impacted 200+ students.			