

SUSHIL

ACADEMIC PROFILE			
Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electrical Engineering IIT (BHU), Varanasi	8.67	2025
CBSE (XII)	PRINCE UCH MADHYAMIK VIDYALAYA SIKAR RAJ	93.60	2020
CBSE (X)	SAINT SOPHIA SR SEC SCHOOL SEC 15-A HISSAR HRY	89.40	2018
SKILLS			
<ul style="list-style-type: none">• Languages: C++, Python, SQL• Tools/ Frameworks: Jupyter Notebook, Tableau, Pandas, Numpy, Matplotlib, Scikit-learn, Tensorflow, Keras• Area of Interest: Data Science, Machine Learning, Deep Learning, NLP, Astronomy, Problem Solving			
INTERNSHIP/TRAINING			
Labh Infocom Pvt. Ltd. Python Developer Intern		May 2024 - July 2024	
<ul style="list-style-type: none">• Created a web app using Flask as the backend and Jinja templates for dynamic content rendering.• Designed and utilized Firestore NoSQL database and Firebase for efficient data management.• Developed a LangChain pipeline for text generation using prompt engineering and OpenAI API of GPT-4o model.• Employed Markdown-it for data representation and KaTeX for parsing and rendering mathematical formulas.• Exposure: HTML, CSS, JavaScript, Jinja, OpenAI APIs, Flask, Firebase, LangChain, Markdown-it, KaTeX.			
PROJECTS			
ConversionCrusher: Predictive Analytics for Digital Marketing Domination			
<ul style="list-style-type: none">• Conducted EDA on digital marketing data using rugplots, pie charts, and correlation matrices to uncover patterns.• Applied feature scaling, target encoding, and addressed imbalance via SMOTE and undersampling techniques.• Optimized ML models; CatBoost achieved best F1 score 0.9684 after Grid Search CV hyperparameter tuning.• Evaluated using precision-recall curves and confusion matrices; 98% precision up to 90% recall on test data.• Exposure - Python, pandas, numpy, scikit-learn, CatBoost, SMOTE, seaborn, matplotlib, GridSearchCV			
MindSense: Multi-Class Sentiment Analysis for Mental Health Conditions			
<ul style="list-style-type: none">• Performed EDA to generate word clouds and analyzed frequency distributions for 7 mental health conditions.• Applied TF-IDF + SMOTE with XGBoost, achieving 74% accuracy and improving F1 scores on imbalanced classes.• Used Word2Vec with Bi-LSTM, increasing accuracy to 76% and improving performance on minority conditions.• Exposure - Python, NLTK, scikit-learn, TensorFlow, Keras, Word2Vec, Text preprocessing, Data augmentation			
Mental Health Chatbot			
<ul style="list-style-type: none">• Engineered a chatbot for psychological support and context-aware mental health conversations by optimizing Falcon-7B LLM with QLoRA and bitsandbytes, reducing memory usage by 60% using quantization and PEFT• Established the chatbot with Gradio, incorporating historical conversational memory for up to 2 conversations.			
POSITION OF RESPONSIBILITY			
Joint Secretary Fine Arts Club Cultural Council, IIT BHU		May 2023 - April 2024	
<ul style="list-style-type: none">• Managed INR 150k club budget for workshops, exhibitions, and events, ensuring efficient use of resources.• Led Fine Arts Club at IIT Roorkee and Inter IIT 6.0, IIT KGP, securing podium finishes through strong leadership.			
Creative Manager Spardha'23 Kashiyaatra'24 Technex'24			
<ul style="list-style-type: none">• Spearheaded and coordinated team of 35+ members to enhance the campus aesthetics during fests.			
HONOURS AND ACHIEVEMENTS			
<ul style="list-style-type: none">• Solved over 650+ problems across various categories on LeetCode. handle• Inter IIT Cultural Meet 6.0, IIT Kharagpur: Led a team of 15 in multiple events, securing the Silver Cup for Fine Arts.• Secured 1st Position in Recognizance, a Machine Learning competition in Prastuti'23, IIT BHU, Varanasi.• Secured 1st Position in the Case Study competition at National Space Student Challenge'22, IIT Kharagpur.			
EXTRA-CURRICULAR ACTIVITIES			
<ul style="list-style-type: none">• Fine Arts Club, IIT BHU: Represented IIT BHU at Inter IIT 5.0, IIT Madras, secured 4th position in Kalakriti'22.• Astronomy Club, IIT BHU: Secured 2nd place in Space Flight Simulator competition, reached pre-final round of International Astronomy and Astrophysics Competition 2022 and final round of AstroQuiz, Technex'22.			

T: [REDACTED] E: [REDACTED] Address: [REDACTED]