

# Sidhish Puppala

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## SKILLS

- **Languages:** C++, Python, HTML
- **Technologies:** NumPy, Pandas, Matplotlib, Seaborn, scikit-learn
- **Developer Tools:** Git, GitHub, Google colab, VS Code, Linux
- **Soft Skills:** Problem-Solving Skills, Team Player, Analytical Skills

## TRAINING

- **Complete Interview Preparation – Self Paced** JUN 2024 – AUG 2024
- Comprehensive DSA Training – Covered Data Structures & Algorithms, including Arrays, Linked Lists, Trees, Graphs, and Dynamic Programming.
- Problem-Solving & Coding – Solved real-world coding problems and participated in mock coding assessments to enhance interview readiness.
- System Design & CS Fundamentals – Learned Operating Systems, DBMS, OOP, Computer Networks, and Aptitude to strengthen core technical concepts.

## PROJECTS

- **Image Caption Generator - Flickr Dataset:** SEP 2024 - NOV 2024  
**Machine Learning**
  - Developed an AI-driven image captioning system using CNNs for feature extraction and LSTMs for text generation, enabling accurate and meaningful descriptions.
  - Preprocessed image and text data, optimized model performance with VGG16, and fine-tuned hyperparameters for improved caption accuracy.
  - Built and deployed a real-time caption generator with Flask, allowing users to upload images and receive AI-generated captions instantly.
  - **Tech:** Python, TensorFlow, Keras, VGG16, LSTM, NLTK, Flask, Pandas, Matplotlib, Seaborn.
- **Code-Switching and Code-Mixing Statement Analysis:** SEP 2024 - NOV 2024  
**Machine Learning**
  - Developed a machine learning model using TF-IDF and logistic regression to classify text into code-switched, code-mixed, or monolingual categories with high accuracy.
  - Engineered a natural language processing (NLP) pipeline, including text preprocessing and feature extraction, to improve classification performance.
  - Visualized model performance using confusion matrices and classification reports, demonstrating insights into linguistic patterns in multilingual text.
  - **Tech:** Python, Scikit-learn, NLP, Pandas, Matplotlib, Seaborn.
- **Customer Churn Prediction in Telecommunications:** FEB 2024 - MAR 2024  
**Machine Learning**
  - Developed a customer churn prediction model for telecom companies using Logistic Regression, Decision Tree, Random Forest, and XGBoost, achieving 89% accuracy and an F1 score of 0.87.
  - Performed feature engineering, exploratory data analysis (EDA), correlation heatmaps, and customer behaviour pattern analysis to improve model performance.
  - Designed a scalable and adaptable solution for telecom providers to predict and reduce churn rates, improving customer retention strategies.
  - **Tech:** Python, Pandas, Scikit-learn, TensorFlow, Matplotlib, Seaborn, PostgreSQL.

## CERTIFICATES

- IBM DevOps and Software Engineering(Coursera) DEC 2024
- Data Structures and Algorithms(Udemy) FEB 2024
- C++ Programming(Coursera) JAN 2024
- AI and Machine Learning(LinkedIn) FEB 2023

## EDUCATION

- **Lovely Professional University** Phagwara, Punjab  
Bachelor of Technology - Computer Science and Engineering **CGPA: 6.65** AUG 2022 - Present
- **Narayana Junior College** Vijayawada, Andhra Pradesh  
Intermediate **Percentage: 79.1%** JUN 2020 - MAY 2022
- **Viswabharati High School** Gudivada, Andhra Pradesh  
Matriculation **Percentage: 99.4%** JUN 2019 – MAY 2020