Saketh Yalamanchili

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Objective

Motivated final-year B.Tech student passionate about Data Science. Strong academic background. Seeking opportunities to apply analytical skills and collaborate in dynamic teams.

Education

Malla Reddy College of Engineering, Affiliated with JNTUH — Hyderabad, India
B.Tech in Electronics and Communication Engineering, CGPA – 7.2 — *2020 – 2024*

Cal Public School, CBSE – 12th Grade — Hyderabad, India
Percentage: 78% — *2018 – 2020*

Cal Public School, CBSE – 10th Grade — Hyderabad, India
Percentage: 70% — *2018*

Technical Skills

- **Languages**: Python, C, SQL, HTML/CSS
- **Frameworks**: Scikit-learn, TensorFlow, Keras
- **Tools**: Jupyter Notebook, Google Colab, GitHub, VS Code
- **Libraries**: NumPy, Pandas, Matplotlib, Seaborn, Streamlit

Projects

House Price Prediction | *Python, Streamlit, Scikit-learn* — Mar 2024

- Performed extensive data cleaning and feature engineering, including one-hot encoding, on the train and test dataset.
- Implemented both baseline modeling and advanced hyperparameter tuning techniques to optimize predictive models for house prices.
- Utilized advanced regression algorithms such as Random Forest Regression, XGBoost, and CatBoost, fine-tuning hyperparameters for optimal accuracy.
- Deployed the final model using Streamlit, delivering an intuitive interface for users to predict house prices with confidence.

Diabetes Prediction Web App | *Python, Streamlit, Sklearn, CatBoost, Jupyter Notebook* — Feb 2024

- Developed a machine learning-driven web app to predict diabetes risk using Python and CatBoost.
- Evaluated and optimized 7 machine learning algorithms, selecting CatBoost for its superior 82% accuracy.
- Ensured data integrity through meticulous preprocessing for seamless user interaction.
- Deployed the user-friendly interface on Streamlit, empowering individuals to assess their diabetes risk with ease and accuracy.

Dog Breed Identification | *TensorFlow, Python, Seaborn, Google Colab* — Jan 2024

- Utilized TensorFlow with MobileNetV2 architecture for dog breed identification.
- Preprocessed image data into tensors for TensorFlow compatibility.
- Constructed and trained neural network for breed pattern recognition.
- Evaluated model accuracy with unseen images, achieving successful predictions.

Certifications

- **Complete A.I. & Machine Learning, Data Science Bootcamp** - Zero to Mastery Academy
- **Scientific Computing with Python** - freeCodeCamp
- **Best AR lens at Lensathon** - SnapAR
- **Python for Data Science** - IBM
- **Data Analysis with Python** - IBM
- **Data Visualization with Python** - IBM

Extra Curricular Activities

- **Tech Enthusiast**: Constantly exploring latest tech through blogs and online resources.
- **AR Lens Creator**: Designing innovative AR lenses for Snapchat.
- **Film Buff**: Passionate about movies and analyzing cinematic techniques.
- **Music Lover**: Enjoying a wide range of music genres for relaxation and inspiration.