

Saketh Gajavell

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SUMMARY

Results-Driven Data Science Student | Skilled in SQL, Python and Power BI, with a passion for data analytics and machine learning. Proficient in NumPy, Pandas, Matplotlib, Seaborn, and Scikit-learn, delivering actionable insights from complex datasets. Experienced in building, developing, and deploying machine learning models (Random Forest, XGBoost, SVM, Naïve Bayes, Gradient Boosting) for classification, regression, and clustering. Expert in data preprocessing, feature engineering, and visualization, driving data-driven decision-making. Adept at optimizing model performance using ensemble learning and crafting reports with Power BI and Excel.

Experience

Technical Supporter

SV GL BAL SERVICES (OPC) PVT. LTD

- **Technical Proficiency:** Hands-on experience with tools like ticketing systems, Zendesk and Jira, remote support software, and diagnostics tools.
- **Analysis of Documentation:** Contributed to the analysis and optimization of documents solutions for recurring issues to create knowledge bases.
- **Professional Language:** The experience is presented clearly and professionally, demonstrating both technical and interpersonal skills.
- **Key Skills Highlighted:** Troubleshooting, customer communication, documentation, and cross-team collaboration.
- Researched, diagnosed, and resolved system issues to identify effective solutions, enhance system functionality, and ensure seamless operations.
- Collaborated with team members to analyze datastructure, streamline processes, and optimize system performance to enhance operational efficiency.

Projects

AI-Powered Image Captioning Using BLIP

[Link](#)

- Built an AI-powered image captioning model using BLIP, generating accurate and context-aware descriptions for images.
- **Tools Used:** PyTorch, Gradio, Torchvision.

Machine Learning Models for Spam Detection

[Link](#)

- Built a spam detection model using machine learning, achieving high accuracy in email classification.
- Implemented data preprocessing, feature extraction, and trained models for efficient spam filtering.
- **Tools Used:** Python, Scikit-learn, NLP techniques, and ML algorithms.

Tomato Disease Prediction: Transfer Learning using VGG19

[Link](#)

- Developed a **VGG19**-based deep learning model with transfer learning, achieving 0.85 accuracy for classifying tomato leaf diseases.
- Preprocessed images, applied augmentation, and fine-tuned the model for real-time disease detection.
- **Tools Used:** Python, TensorFlow, Keras, VGG19.

Access my Data Science & AI projects portfolio on GitHub.

Expertise

- **Programming Languages:** Python, SQL, HTML, CSS
- **Data Science Tools:** Power BI, MySQL, Excel, Git, SSMS
- **Libraries/Frameworks:** NumPy, Pandas, Scikit-learn, TensorFlow, Matplotlib, Seaborn, PyTorch, Spacy, NLTK
- **Machine Learning Models:** Random Forest, XGBoost, SVM, Gradient Boost, ANN, CNN, RNN, LSTM
- **Generative AI Concepts:** Transformers, Fine-tuning, Model Optimization

Education

Undergraduate Education

June 2021 – June 2024

Bachelor of Commerce Institution: Keshav Memorial Institute of Commerce and Science

Field of Study: Bachelor of Commerce in (**Business Analytics**)

Post-Secondary Education

June 2018 – March 2020

Diploma in Mechanical Engineering Institution: Avanthi Scientific Technology and Research Academy

Field of Study: Diploma in (**Mechanical Engineering**)

Primary & Secondary Education

March – 2018

Institution: Pragati Vidya Niketan High School

Certifications

- **Python (Basic)** – HackerRank
- **REST API (Intermediate)** – HackerRank
- **Problem Solving (Basic)** – HackerRank
- **SQL for Data Science** – Coursera
- **AWS Machine Learning Foundations** – AWS and Udacity

Interests

- *Exploring advancements in AI and Generative AI (e.g., Transformers, ChatGPT, and Fine-Tuning Models).*
- *Participating in Kaggle competitions to solve real-world data challenges.*
- *Blogging and sharing insights about Machine Learning and Data Science trends.*
- *Developing side projects using Python for automation and data visualization.*