

BADAVATH SRIKANTH

Mumbai • 9701482514 • badavathsrikanth149@gmail.com • [LinkedIn](#) | [GitHub](#) | [Website](#)

SUMMARY

As a Data Science Associate with 1 year of experience, I leverage Python and SQL to craft end-to-end machine learning solutions. My interests extend to natural language processing and Prompt Engineering where I've explored techniques like LLMs and delved into Generative AI. Through collaborative projects, I excel at uncovering insights that drive innovation. With an AWS Certified Solutions Architect Associate certification, I manage cloud resources to deploy scalable ML solutions effectively. Excited to apply my skills to real-world challenges, I aim to make tangible contributions in the dynamic field of data science.

WORK EXPERIENCE

Data Scientist Associate, Blenheim Chalcot

Feb 2024 - Present

- Enhanced proficiency in **AWS** services such as **Lambda functions, EC2, and S3**.
- Proficient utilization of **GitHub** for **project management** and **collaboration**.
- Led the transition from **Chroma DB**, resulting in improved system performance and stability
- Integrated **GenAI technologies** into key projects like **IntentPro, Guidiq, and Skill Coins**, enhancing their effectiveness.
- Addressed **security vulnerabilities**, including **OpenInterpreter** tool **prompt injection** attacks.
- Developed a **virtual Call AI** for Agilisys' portfolio.
 - Utilized **OpenAI API** for **database** communications.
 - Implemented **OpenAI Whisper model** for **speech-to-text conversion**.
 - Leveraged **ElevenLabs API** for **processing text data to speech**, enhancing functionality.
- Designed and implemented **AI-driven solutions** tailored to Agilisys' specific needs.
- Ensured seamless integration with existing systems and optimized performance.

Data Scientist Intern, Blenheim Chalcot

June 2023 - Feb 2024

- Developed advanced **conversational AI** solutions, including:
 - Leveraged **the Llama2** model for a **chatbot**.
 - Worked on **HuggChat using the Llama2 model**.
 - Created a **chatbot** using **OpenAI's chat completions model** for accurate, context-aware responses.
- Built **GPT CODE UI**, an innovative **data analysis tool** using the **GPT code interpreter** on **Jupyter kernels**, automating library installations and self-correcting code.
- Enhanced skills in **Prompt Engineering** and **NLP for prompting** through extensive work with **Large Language Models (LLMs)**.
- Gained experience with **AWS services** and **deployed Generative AI** projects.
- Authored comprehensive project documentation.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Aug 2020 - Jun 2024

Lovely Professional University

- Specialization: Data Science (Machine Learning and Artificial Intelligence)
-

Research Paper Publications:

Forecasting the Prices using Machine Learning
Techniques: Special Reference to used Mobile Phones:
[Research Paper Link](#)

Jun 2023 – Sep 2023

Published in **IEEE Explore** and presented at International Conference on Augmented Intelligence and Sustainable System (**ICAISS 2023**)

- Developed **machine learning models** to predict price ranges based on mobile phone specifications.
- Identified **optimal algorithms** and analyzed feature impacts on pricing.
- Used **supervised learning** techniques: **Logistic Regression, Decision Trees, Random Forests, XGBoost.**
- Conducted **data preprocessing, feature engineering, and hyperparameter tuning.**
- Evaluated models with **accuracy metrics** and feature importance analysis.

Key Findings:

- Achieved **90% accuracy** with tuned **XGBoost model.**
- **RAM** emerged as a critical **pricing factor.**
- Provided insights for manufacturers and consumers on pricing strategies and product specifications.

Contributions:

- Demonstrated machine learning's effectiveness in price prediction.
- Emphasized the role of data quality and feature selection in model performance.

CERTIFICATIONS

- [AWS Certified Solutions Architect - Associate \(SAA-C03\)](#)
 - Issued by: Amazon Web Services
 - Date of Certification: December 2023
- Google Cloud Certified Professional Cloud Architect
- Learn Advanced Python programming course completion certificate by E-box

Technical Skills & Power Skills

- **Programming languages:** Python, Java, C
- **Web Technologies:** JavaScript, Nodejs, HTML5, CSS
- **Data Management:** MySQL, MongoDB
- **Platforms:** Docker, PyCharm, Tableau, PuTTY SSH Client AWS, AZURE Cloud, GCP, Android studio, Vs code, Jupyter note book

Power Skills:

- Comfortable working in a team of known individuals.
 - Imaginative and empathetic.
 - Rational and critical thinker.
 - Curious and creative.
-

PROJECTS

HealthBotML: Intelligent Healthcare Companion

Domain: Machine Learning, Artificial Intelligence; Languages: Python, JavaScript, HTML, CSS

- Developed **HealthBotML**, an AI-powered healthcare companion with features like **BMI calculator**, **virtual AI chatbot**, **disease precautions**, and **nutritional guidance**.
- Implemented **Python Flask** for backend, **Jinja2** for templating, **HTML**, **CSS**, **JavaScript** for frontend.
- Used **ML models** including **Decision Tree**, **Gradient Boosting**, **Multinomial Naive Bayes**, and **Random Forest** for disease predictions

CodeLlama:AI Tutor Chatbot

Domain: Generative AI, LLM, NLP; Language: Python

- Developed **Codellama**, a smart tool for interactive **code generation** and discussion. Implemented with **Python** and **Streamlit** for the web interface
- Features include generating and discussing **code snippets** based on **text prompts**, facilitated by **AI-driven** responses.
- Integrated **Meta's CodeLlama** model via **DeepInfra's API** for **AI capabilities**.
- Technologies used: **Python** (Streamlit), **DeepInfra API**, Meta's CodeLlama model, **HTML/CSS**.
- Developed a user-friendly interface, implemented **backend logic** for **prompt** handling and AI responses, ensured **secure API key** integration.
- **Codellama** enhances productivity and creativity in **software development** workflows through AI-driven **coding assistance**

Used Phone Price Predictions

·Domain: Data Science, Machine Learning, Data Analysis; Languages: Python

- Conducted a **Machine Learning** project to **predict prices of used mobile phones** based on **21 features** including brand, model, storage, RAM, processor, screen size, camera, and battery.
- Analyzed a **dataset of 2000** used phone listings to identify **patterns** and **relationships** using **logistic regression**, **decision trees**, **random forest**, and **XGBoosting algorithms**.
- Aimed to uncover factors influencing phone prices and identify the best predictive model. **Provided predictions** and insights for **phone resellers**, **online marketplaces**, and consumers.
- Enhanced market efficiency and transparency by **analyzing feature** impacts and **market trends**. Applied **EDA**, **data analysis** and **machine learning**, and electronics **domain** knowledge to inform pricing **strategies**.

Serverless Website Deployment with Amazon Lambda and Docker

·Domain: Cloud Computing, Serverless Architecture

- Developed a **serverless** website using **Amazon Lambda**, **Docker**, **API Gateway**, and **DynamoDB**. Optimized performance through **auto-scaling** and **CloudFront CDN** integration.
- Demonstrated proficiency in **AWS services**, **Docker**, and **serverless architecture**. Deployed scalable **web applications**, showcasing ability in **cloud-based** development and optimization.