Avaneesh Karthikeyan Iyer

Linkedin : avaneesh-karthikeyan-iyer   Contact : +91 9372926662   Email id :avaneesh.karthik@gmail.com

I am a dynamic and results-driven data science enthusiast with a strong knack for solving problems using technical expertise and efficient time management. With a solid foundation in data science, analysis, and machine learning, I'm eager to contribute to impactful projects and drive data-driven decision-making. My passion lies in uncovering actionable insights from data to create effective strategies. I am enthusiastic about applying my academic knowledge in real-world settings to make a meaningful impact and collaborate with diverse teams on cutting-edge data science innovations.

Work Experience

Internship

AI Engineer Intern: Datamango Technologies Pvt Ltd   **Jul 2024 - Sep 2024**
- Developed AI-based solutions using Large Language Models, enhancing the automation process by 30%.
- Strengthened problem-solving and analytical skills by working on various AI-driven projects.

Data Science Intern : Zidio Learning.in   **Apr 2024 - May 2024**
- Analyzed weather data using regression, clustering, and decision trees, resulting in a predictive model accuracy of 92%.
- Evaluated model performance metrics such as precision, recall, and F1 score, ensuring robust predictive capabilities.

Machine Learning Intern : PHN Technology Pvt Ltd   **Apr 2023 - Jun 2023**
- Enhanced machine learning models, leading to a 20% increase in time-to-conversion rates.
- Evaluated model performance with precision and recall scores, achieving an average precision of 85% and recall of 80%.

Skills

- **Languages:** Python, SQL, PostgreSQL, MongoDB
- **Tools:** Tableau, Power BI, Weka, Jupyter Notebook
- **Soft Skills:** Problem-solving, Critical thinking, Project management, Extemporaneous speaking, Communication & Presentation

Projects and Research

Self Development Projects
- **AI-Powered Chatbot:** Developed an intelligent voice-enabled chatbot using NLP (pyttsx3, wave) and speech recognition (speech_recognition), integrated with OpenAI API for enhanced, context-aware interactions.
- **Data Visualization Dashboards:** Created and deployed interactive dashboards using Tableau, PowerBI, and Excel to analyze and visualize key datasets, including Indian restaurant insights for 2023 and predictive Covid-19 trend analysis.
- **Advanced Image Classification Models:** Built deep learning models (CNN, RNN, Autoencoders) for advanced image classification, feature extraction, and predictions, leveraging state-of-the-art architectures for improved accuracy.

Research Project   **Sep 2023 - Mar 2024**
- **Assistantship :** Developed a neural network for breast cancer detection and contributed to data analysis and cleaning, resulting in a model accuracy improvement to 90%.

Educational Background

B.E. Computer Science : SIES Graduate School of Technology, Nerul   **2021-2025**
CGPA: 8.9   (Sem I-VI)

HSC : DAV International School, Kharghar   **2020-2021**
Grade: 91%

SSC : DAV International School, Kharghar   **2018-2019**
Grade: 92%

Certifications

Google Cloud Practitioner - *Google Cloud Skills Boost*
- Earned 40+ badges over three years, covering cloud infrastructure, machine learning, and AI. Gained hands-on experience through guided labs, building a robust foundation to swiftly adapt to evolving cloud technologies.

Microsoft Learn Challenge - *Microsoft*
- Completed 30+ badges in one year, focusing on Microsoft Copilot Studio, Azure AI, and Azure Machine Learning. Developed practical expertise in AI solution building, Azure Cognitive Search, and generative AI with Azure OpenAI Service.

Introduction to Statistics - *Stanford University via Coursera*
- Gained foundational knowledge in statistical theory, probability, and data analysis techniques, with real-world applications.

What is Data Science? - *IBM via Coursera*
- Gained essential knowledge of data science tools, methodologies, and techniques for analyzing and solving business problems.

Master the Machine Muse: Build Generative AI with ML - *Udemy*
- Covered the fundamentals of generative AI and machine learning, including GANs, VAEs, and transformers, with a focus on creative project applications.

Deep Learning Python Project: CNN-based Image Classification - *Udemy*
- Learned the core principles of Convolutional Neural Networks (CNNs) and how to apply them to image classification tasks.

Google Analytics 4 (GA4): Become a Web Analytics Specialist - *Udemy*
- Developed expertise in web analytics, mastering GA4 for tracking user behavior, setting up events, and interpreting key business metrics.

Hobbies and Interests

- Reading books: Enriches the mind through deepened comprehension, enhanced emotional engagement, personal growth, and continuous learning and feeds my curiosity.
- Playing chess: Strategically minded with a keen ability to anticipate and plan ahead.
- Listening to music: Find inspiration and relaxation through various genres, enhancing focus and creativity.

Languages

Native proficiency in Tamil, fluent in English and Hindi.