Amirthan Murugan

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Experience

ARTIFICIAL INTELLIGENCE INTERN   May 2024 – July 2024

Internship Studio

- Implemented and fine-tuned various AI models for specific tasks, such as NLP an CV, to project objectives.
- Improved the efficiency and accuracy of algorithms by optimizing parameters and experimenting with different architectures, enhancing overall project outcomes.
- Fine-tuned the ANN model parameters to optimize recognition accuracy and performance.

DATA SCIENCE INTERN, Pune

Code Alpha   June 2024 – July 2024

- Worked as a data science intern at Code Alpha, gaining hands-on experience in the field of data science and machine learning.
- Conducted exploratory data analysis and data preprocessing to clean and prepare datasets for analysis.
- Developed predictive models using machine learning algorithms such as regression, decision trees, and random forests.
- Employed Python and data science packages like NumPy and Pandas to identify key customer segments and predict churn rates with 85% accuracy for a leading telecom company.

PROJECT

Title: Wireless Music Control Using Hand Gesture Recognition by Deep Learning

- Developed wireless music control system utilizing CNN neural network for accurate classifies hand gestures associated with music commands.
- Wireless music control showcasing innovation in human computer interaction and enhancing user experience.
- Integrated with python's OpenCV for video processing system translates gestures into actions for **hands-free-controlling music playback.**

Title: AI Powered Nutrition Analyzer For Fitness Enthusiasts – IBM Project

- Developed AI-Powered Nutrition for **fitness enthusiasts to maintain fitness** and improved health.
- Used CNN neural network for image recognition.
- To use Python's Flask to facilitate real-time picture identification.

Title: Shield Insurance Insights -[Excel, Power BI]

- Designed a Power BI dashboard to examine customer growth and revenue patterns at Shield Insurance Company.
- Analyzed geographical distribution and age group-based-statistics to identify potential opportunities for business growth and optimization.
- The project's insights are expected to contribute to **informed decisions and 7%revenue growth in** subsequent quaters

Education

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE   August 2019 - April 2023

Dhanalakshmi Srinivasan Institute of Technology, Trichy

CGPA: 8.4

MTECH IN ARTIFICIAL INTELLIGENCE&DATA SCIENCE   August 2023 - April 2025

Sastra Deemed University, Thanjavur

Skills

Programming languages: Python, Java	**Data analysis:** Power BI, Excel, Tableau	**Database:** MYSQL, MongoDB
Data Science : Machine Learning, Deep Learning		

CERTIFICATION

- EXCEL: Mother of Business intelligence
- SQL beginner to advanced for a data professional
- Power BI beginners to advance