DINESH RAM C

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in Dinesh Ram | ○ dineshram345

OBJECTIVE

Seeking a challenging position in Data Science and Python Development to leverage my expertise in Python and data-driven analysis. Aiming to contribute to innovative projects at the intersection of machine learning, data analytics, and practical problem-solving in respective fields oriented to industry project.

EXPERIENCE

- **Societe Generale Global Solution Centre Pvt. Ltd.** *Dec 2022-Present*
  SOFTWARE DEVELOPMENT ENGINEER Chennai
  ◦ Project: Mamout Application
  ◦ Contributed to the development and enhancement of backend modules, ensuring smooth system operations
  ◦ Conduct extensive data analysis to drive decision-making and troubleshoot complex issues within the application.
  ◦ Experience in end-to-end bug fixing and system debugging.
  ◦ Worked with C# and SQL Server, gaining practical knowledge in backend and web development.
  ◦ Provided prompt solutions to technical issues, ensuring minimal downtime and high user satisfaction

- **LTIMindtree** *Feb 2022-June 2022*
  SOFTWARE ENGINEER INTERN Remote
  ◦ Conduct data collection, cleaning, and analysis to support business insights and identify trends.
  ◦ Assist in developing, testing, and deploying applications using .NET frameworks, ensuring functionality and quality standards.
  ◦ Collaborate with senior developers to optimize code for performance and resolve issues within the .NET environment.

EDUCATION

- **M.Tech Artificial Intelligence and Data Science**
  SRM Institute of Science and Technology Chennai, India
- **B.E Electronics and Communication**
  PSNA College of Engineering and Technology, affiliated to Anna University Dindigul,India

PROJECTS

- **MADURAI WARD APP (OPEN SOURCE)** *JUN 2024-Present*
  Tools: [Flutter,Firebase,Python,Excel] [○]
  ◦ Developed for empowering residents with easy access to local ward information, services, and updates for a smarter Madurai.
  ◦ Implemented using Flutter for easy usability, achieving all kinds of people to join in a platform.
  ◦ Created back-end services ensuring seamless data flow, high performance, and robust security to support scalable and reliable application functionality.

- **An AI based Crop Monitoring Agriculture Robot: [SMART IRRIGATION CARDIO]**
  Tools: [Intel Distribution for Python, integrated sensors, computer vision, ML and IoT connectivity] [○]
  ◦ An AI-based crop monitoring agriculture robot to analyze crop health and detect issues in real time.
  ◦ Equipped with multispectral cameras, soil sensors, and GPS-based navigation, it autonomously gathers and processes data to provide insights on crop conditions, soil quality, and pest detection.
  ◦ This precision-driven robot optimizes field management, helping farmers increase yield and reduce resource usage through targeted interventions.
  ◦ Utilized Intel Distribution for Python to accelerate data processing and machine learning tasks in an AI-driven crop monitoring agriculture robot, enabling efficient analysis of large-scale sensor data and real-time insights on crop health and soil conditions for precision agriculture applications

- **NLP-driven Virtual Friend for Stress Management: [EUPHERIC MIRROR]**
  Tools: [NLTK, Mini PC ,OpenCV , Speech Recognition] [○]
  ◦ Designed a hardware-based virtual friend for stress management, integrating NLP and sentiment analysis to provide supportive, real-time conversations.
  ◦ Developed an interactive interface with sensors to detect user emotions, enabling personalized responses and coping suggestions
  ◦ Deployed with robust embedded systems to ensure accessibility and responsive interaction for mental well-being support for all age group users.
  ◦ Integrating music therapy to provide personalized emotional support and relaxation techniques

- **An Incentivized Tech WasteBin with a gamified web portal for Smart City waste management [GAREWARD]**
  Tools: [Python,Flask,MySQL,HTML,CSS,Electronics] [○]
  - Developed a smart dustbin with a touch screen and a gamified portal that generates a QR code for each user interaction.
  - Upon scanning the QR code, users earn points for proper waste disposal and can track their progress.
  - The system encourages recycling by linking the QR code to a rewards program, promoting eco-friendly practices.

- **Smart Industrial Monitoring System using Computer vision [SMD System]**
  Tools: [OpenCV,Scikit-Learn,Flask,Raspberry Pi] [○]
  - Automate quality control and defect detection in manufacturing processes using drones and robots.
  - Integrated real-time image analysis with machine learning algorithms to enhance production efficiency and ensure product consistency.
  - The system enabled predictive maintenance and reduced downtime by identifying potential issues early.
  - Developed to avoid industrial accidents.

SKILLS

- **Programming Languages:** Python, C# , Java
- **Web Technologies:** HTML, CSS, JavaScript
- **Database Systems:** MySQL, MongoDB, MS SQL Server
- **Data Science & Machine Learning:** Numpy,Pandas,Scikit-learn,Tensorflow,PyTorch,PySpark.
- **Cloud & Version Control:** AWS , Git , GitHub
- **Big Data & Data Engineering Tools:** Apache Hadoop, Apache Spark.
- **Data Visualization Tools:** Tableau, Matplotlib, Seaborn.
- **Frameworks:** Django, Flask, Dot Net

COURSEWORK

Data Analysis and Visualization, Statistics for Machine Learning, Ensemble Learning and Classification, Machine Learning - Unsupervised Model, Big Data for ML, Natural Language Processing, Deep Learning, Computer Vision, Robotics & Drone Engineering.

HONORS AND AWARDS

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  1. TITLE WINNER OF FEATURETHON SEASON 1
  2. WON 1 LAKH WORTH INTEL SOFTWARE , INTEL PYTHON HACKFURY 2
  3. RUNNER UP , HACKATHON 2K19
  4. TOP 5 FINALIST IN SMART INDIA HACKATHON
  5. SEMI-FINALIST OF IICDC CONDUCTED BY AICTE, DST , TEXAS INSTRUMENTS
  6. BEST PAPER AWARD , CONFERENCE ON ADVANCEMENT IN SCIENCE AND TECHNOLOGY
  7. TITLE WINNER OF FEATURETHON SEASON 2
  8. BEST PROJECT AWARD IN ROBOTICS , ROBOTICS CLUB OF PSNACET
  9. SECOND RUNNER UP , TECH STORM CODING EVENT
  10. 1ST RUNNER OF MADURAI HACKATHON 23

CERTIFICATIONS

1. **Honours Diploma In Computer Programme (HDCP), CSC**
2. **Crash Course on Python , Google**
3. **Django and Flask ,Elysium IT Solutions**
4. **AI and DS with Python, IBM**
5. **AWS Academy Graduate-AWS Academy Cloud Foundations**
6. **Machine Learning , AWS**
7.**Getting Started with Qualcomm AI HUB, QUALCOMM**
8.**Foundations of Deep Learning, NVIDIA**

ADDITIONAL INFORMATION

Languages: English, Tamil , Hindi
Interests: Travelling , Fitness, Reading , Sports, DIY Projects