Harith Laxman A.G.

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PROFILE

A highly motivated and innovative FullStack software developer with extensive experience developing Java-based web and mobile applications, optimizing performance, and designing custom software to meet organizational needs. A skilled communicator and strategic thinker, committed to solving real-world problems and exceeding expectations. Capable of collaborating effectively with cross-functional teams and continuously learning to stay abreast of emerging technologies. Proven ability to design solutions that highlight organizational core competencies and promote overall success.

EDUCATION

Vellore Insitute of Technology 2017 – 2021 | Vellore, India

B.Tech in Computer Science and Engineering with specialization in Bioinformatics

- **GPA :- 8.32/10**

PROFESSIONAL EXPERIENCE

Tata Consultancy Services 08/2021 – present | Chennai, India

Systems Engineer

- Led and directed a team of 15 professionals to develop and deliver complex projects within scheduled timelines.
- Assisted in the collection and documentation of user requirements and participated in the development of user stories, estimates, and work plans.
- Designed and developed innovative solutions to support Netbanking, Mobile banking, and UPI functionalities for the customer using Java, Java Enterprise Bean, JSPs, HTML CSS, and Javascript.
- Collaborated closely with management, vendors, and other third-party associates to ensure the successful delivery of high-quality applications with full functionality and optimal performance.
- Developed REST and SOAP APIs to facilitate easy consumption by third-party vendors.
- Managed and actively participated in the migration of existing applications from older versions of app and database servers to newer ones.
- Significantly improved the performance of Mobile Banking and UPI applications by up to 15% through effective database querying and decoupling.
- Automated the process of downloading specific financial reports and executing pre-defined procedures, thereby streamlining operations for the client.
- Implemented modern code retrofitting techniques and established a comprehensive version control procedure for the client.
- Worked collaboratively with cross-functional teams to ensure smooth and efficient project delivery.
- Mentored junior developers and provided guidance on coding best practices, performance optimization, and quality assurance.

AWARDS

Star of the Month 02/01/2023

Tata Consultancy Services

Recognized for my exceptional work ethic, unwavering commitment to meeting customer needs, and resourceful contributions to the organization.

PROJECTS

Crop Disease Prediction using Deep Learning methods

Developed a cutting-edge crop disease detection and prediction model using YOLOv3 and ResNet-152, accurately detecting and predicting 38 diseases across 14 plant species in real-time. The user-friendly and scalable system improves accuracy by up to 95% compared to conventional methods, resulting in significant cost savings for farmers and ensuring food security. This powerful tool has the potential to revolutionize crop management and agriculture.

Handwritten signature forgery detection using ResNet

Developed a sophisticated deep learning model using ResNet-50 that accurately detects and identifies forged signatures from original ones. The model was trained on a large dataset and fine-tuned to achieve high precision and recall rates. Its accuracy has been demonstrated in extensive testing, making it a valuable tool for use in a range of settings, from financial institutions to legal settings

Residual Learning Formulation for Generic Image De-noising

Created a powerful and versatile generic image de-noising model that can accurately predict Gaussian noise levels in an image using deep CNNs. The model is enhanced by formulations of residual learning and batch normalization, delivering improved performance in image de-noising. This model has a wide range of applications in industries such as healthcare and surveillance.

Cursor Control based on Human Facial Movements

Developed a Python program that utilizes openCV to capture a user's facial movements and translate them into cursor movements with the help of Pyautogui. This system provides a novel and intuitive method for controlling a computer and has potential for use in gaming and other applications. The program is easy to use and can be easily integrated into existing workflows.

CERTIFICATIONS

Machine Learning by Stanford University Coursera

Neural Networks and Deep Learning by Deeplearning.Ai Coursera

Usable Security by University of Maryland, College Park Coursera

SKILLS

- Full-stack development (Java, JavaScript, HTML, CSS)
- Spring framework
- React framework
- REST & SOAP API development
- MySQL
- Git
- Image classification and object detection using deep learning (TensorFlow & PyTorch)
- Computer vision and image processing (OpenCV)
- Problem-solving and critical thinking
- Communication and collaboration.