AISWARYA KOTTIYAL

SOFTWARE ENGINEER

📞(+91)7736615580 ✉ aiswaryarameshans@gmail.com 🔗 linkedin 📍 Kerala

SUMMARY

Result-driven Software Engineer with a Master's in Computer Applications and hands-on experience in full-stack web development, artificial intelligence, and data science. Skilled in Python, JavaScript, React, HTML 5, CSS 3 and C++, with a strong foundation in machine learning, computer vision, and natural language processing. Adept at designing scalable applications, automating workflows, and applying deep learning models to solve real-world problems. Demonstrates strong problem-solving skills, adaptability, and a commitment to continuous learning.

TECHNICAL SKILLS

- Programming Languages: Python, C++, C, JavaScript, HTML5, CSS3
- Frameworks & Libraries: Node.js, jQuery, OpenCV, TensorFlow, Keras, NumPy, Pandas
- Database & Data Tools: MySQL, Power BI, Advanced Excel
- DevOps & Tools: AWS, Git, SDLC, Jupyter Notebook
- Other Tools: Microsoft Office Suite (Word, PowerPoint), VS Code, Anaconda

SOFT SKILLS

Adaptability, Communication, Problem Solving, Critical Thinking, Teamwork

EXPERIENCE

Data Science with AI intern   07/2024 - 10/ 2024
Edu Tantr Pvt Ltd

- During my internship at EDU TANTR, I engineered an AI text-to-image pipeline generating over 1,000+ realistic visuals, improving caption accuracy by 15% and enhancing image clarity—reducing noise by 30%.
- I accelerated end-to-end processing by 25% using computer vision, NLP, and Python, enabling seamless visual–text data integration across social media, e-learning, and ecommerce platforms.
- This project delivered measurable improvements in output quality and efficiency, showcasing my strong foundation in AI frameworks and practical experience applying metrics-driven solutions.

PROJECTS

TEXT To IMAGE GENERATION WITH OPTIMIZED CAPTIONING   06/2024 - 08/2024

- Developed a deep learning system to generate images from text using Generative Adversarial Networks (GANs).
- Utilized CNNs for extracting image features and LSTM networks for caption generation.

- Combined image processing with NLP techniques for optimized output and relevance

DOWN SYNDROME DETECTION USING DEEP CNN   01/2024 - 04/2024

- Designed a diagnostic model using facial image analysis to detect Down syndrome.
- Applied deep CNNs for feature extraction and classification.
- Achieved 94% accuracy through advanced hyperparameter tuning and performance optimization

PERSONAL BUDGET TRACKER   2024

- Built a Python-based desktop application to track daily expenses and savings.
- Included user-friendly data entry, visualization, and summary features.

SOIL TESTING APPLICATION   2022

- Developed a web-based system for automating soil test reports using PHP, HTML, and JavaScript.
- Integrated real-time data entry and analysis for soil testing laboratories.
- Enhanced efficiency and reduced manual errors in the testing workflow.

EDUCATION

Master Of Computer Application   2022-2024

Acharya Institute of Graduate Studies, Bangalore, India

CGPA- 8.34/10

Bachelor of Computer Application   2019-2022

Kannur University, Kerala, India

CGPA- 7.8/10

CERTIFICATIONS & COURSES

Advanced Excel certificate-*Udemy*   07/2025

DevOps on AWS - *Coursera*   06/2024

Python Programming Virtual Internship - *Coding Raja Technologies*   04/2024

Big Data Fundamentals - *Infosys Springboard*   02/2024

Red Hat System Administration - *Red Hat*   02/2024

Japanese Endowed course(JEC)- *CHG IT Consultancy Pvt Ltd*   02/2023