VISHAL YOGESHBHAI ARYA

Data Scientist — AI-ML Engineer

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PROFESSIONAL SUMMARY

Experienced Computer Science Engineer specializing in AI/ML, cloud computing, and software development. Demonstrated expertise in developing machine learning models for real-world applications, deploying AWS-based solutions, and leading competitive hackathon teams. Proven track record in remote sensing applications and automated cloud infrastructure deployment.

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, JavaScript, Java
- **Cloud & DevOps:** AWS Services, Lambda, EC2, S3, SageMaker, Cloud Architecture
- **AI/ML & Data Science:** Machine Learning, Deep Learning, Computer Vision, Remote Sensing, Data Analysis
- **Web Technologies:** HTML5, CSS3, Bootstrap, Streamlit, Responsive Design, JavaScript Frameworks
- **Frameworks & Tools:** TensorFlow, Scikit-learn, U-Net, Random Forest, MySQL, Git, GitHub, Jupyter, VS Code

PROFESSIONAL EXPERIENCE

Research Intern
CloudThat Technologies
Jan 2025 – Present
Ahmedabad, India

- Developed natural language-to-AWS deployment system, reducing deployment time by 80%
- Engineered automated pipelines integrating Lambda, EC2, and S3 services
- Applied AI/ML techniques for intelligent cloud resource optimization
- Delivered enterprise-grade solutions supporting multi-tier cloud architectures

Summer Research Intern
Institute of Technology, Nirma University
May – July 2024
Ahmedabad, India

- Developed ML models for marine debris detection using Sentinel-2 imagery
- Processed 1,381+ image patches with 800,000+ annotated pixels from MARIDA dataset
- Achieved 94% accuracy with optimized Random Forest implementation
- Specialized in imbalanced dataset handling and remote sensing analysis

Software Engineer Intern
Lauruss Infoways Pvt. Ltd.
May – Aug 2022
Ahmedabad, India

- Developed dynamic web applications using PHP, HTML5, CSS3, and JavaScript
- Implemented server-side logic with 40% improved response times
- Delivered cross-device compatible applications with 99.9% uptime

EDUCATION

Bachelor of Technology in Computer Science & Engineering
Nirma University, Ahmedabad
2022 – 2025
CGPA: 6.72/10

- Relevant Coursework: Data Structures, Algorithms, Machine Learning, Database Systems, Software Engineering
- Active participation in technical workshops and coding competitions

Diploma in Information Technology
Aditya Silver Oak Institute (GTU), Ahmedabad

2022

CGPA: 9.54/10

- Specialized in web development, database management, and programming fundamentals
- Achieved 2nd position in IT branch with consistent academic excellence

Secondary School Certificate (SSC)
Shah V.H.H. High School (GSEB), Ahmedabad

2019

72.66%

KEY PROJECTS

Infrastructure as Code
Cloud Infrastructure Automation Project

Jan 2025 – Present

- Developed automated AWS infrastructure deployment using CloudFormation and Terraform
- Integrated Claude Sonnet 3.7 model from AWS Bedrock for intelligent script generation
- Implemented CodeBuild pipelines for seamless deployment to client AWS accounts

Marine Debris Detection AI
Environmental Conservation Project

May – July 2024

- Analyzed satellite imagery using MARIDA dataset for environmental conservation
- Implemented U-Net and Random Forest algorithms with superior performance metrics
- Contributed to global marine pollution monitoring through advanced ML techniques

Customer Churn Prediction System
Business Intelligence Project

Oct – Nov 2023

- Built predictive models using Gradient Descent, Logistic Regression, and ANNs
- Delivered actionable business insights for customer retention strategies
- Created interactive Streamlit dashboard for real-time model deployment

Dynamic CV Builder Application
Web Development Project

Jan – July 2023

- Engineered user-friendly interface with comprehensive form validation
- Implemented responsive Bootstrap framework for cross-device compatibility
- Applied advanced CSS3 animations and JavaScript interactions

CERTIFICATIONS & ACHIEVEMENTS

- **Supervised Machine Learning: Regression & Classification** – Score: 100/100
- **Unsupervised Learning, Recommenders, Reinforcement Learning** – Score: 98.20/100
- **2nd Winner – Intech Track at Mind Hackathon** – March 2023
- **Academic Excellence – 2nd Position in IT Branch** – 3rd Year
- **No-Code Workshop Certification** – Completed