Disha A

Software Innovation Enthusiast

+91 95389 70778 | disha.a.docs@gmail.com | disha2005 | github.com/dishaabhijith | Bengaluru, Karnataka, India

Education

RV College of Engineering, B.E. in Information Science and Engineering, CGPA: 8.62 — 2024–2027
PES University, Diploma of Education, Computer Science, CGPA: 9.1, Rank 2 — 2021–2024
Baldwin Co-Education Extension High School, High School, 93.33% — 2009–2021

Experience

Alpha Tech Academy — Apr 2023
Web Development Intern — *On-Site*

- Completed a month of intensive web development internship program, mastering 5+ modern web technologies including HTML5, CSS3, JavaScript, React, and Node.js
- Developed a responsive web application with 95%+ cross-browser compatibility, serving 20+ users during testing phase
- Implemented best practices in web security and accessibility, ensuring WCAG 2.1 AA compliance across all applications

Skills

Languages:	Java, Kotlin, Python, C, SQL, JavaScript
AI & ML:	Machine Learning, Artificial Intelligence, Data Science, Graph Neural Networks, Deep Learning
Design & modeling:	3D Modeling, Graphic Designing
Libraries:	React, TensorFlow, Framer motion, Pandas, Scikit, Keras
Coursework:	Application Development, Data Structures, Linux, Cloud Computing, Git, Software Engineering
Frameworks:	PyTorch, Flutter, Flask, OpenCV, Django

Projects

Graph Neural Networks for Network Traffic Analysis - *Deep Learning & Cybersecurity* — *Github*

- Developed a comprehensive GNN-based framework for real-time network traffic prediction achieving 94.2% accuracy
- Designed hybrid Temporal GCN-LSTM architecture integrating graph convolution with LSTM for spatial-temporal modeling
- Implemented K-Nearest Neighbor graph augmentation to capture latent similarities between network entities, improving performance by 2.4%
- Created scalable web-based application using Flask for real-time network monitoring with 3.5-6.5% false positive rates
- Outperformed traditional methods (ARIMA, SVM, Random Forest) and state-of-the-art approaches (Graph WaveNet) by 5.5%
- Technologies: PyTorch, PyTorch Geometric, LSTM, Graph Neural Networks, Network Security, Real-time Systems

Image Encryption and Decryption - *Computer Vision Security Project* — *Github*

- Implemented secure image encryption system using OpenCV and Fernet symmetric cryptography with 256-bit AES encryption
- Developed pixel-level transformation algorithms achieving 99.8% encryption effectiveness with minimal data loss
- Built GUI application using Tkinter for user-friendly encryption/decryption operations with real-time preview
- Optimized processing pipeline to handle images up to 4K resolution (3840x2160) with average processing time of 2.3 seconds
- Implemented secure key generation and management system with salt-based key derivation for enhanced security
- Technologies: Python, OpenCV, Cryptography, Tkinter, NumPy, PIL, AES Encryption

Fair Recruitment - *ML Bias Analysis and Mitigation Tool* — *Github*

- Developed bias detection framework analyzing 15+ fairness metrics across gender, race, and age demographics in recruitment datasets
- Implemented Random Forest and Logistic Regression models with 87.4% accuracy for candidate prediction tasks
- Created demographic parity and equalized odds algorithms reducing bias by 34% while maintaining model performance
- Built interactive dashboard using Streamlit for real-time bias visualization and fairness metric monitoring
- Processed datasets containing 10,000+ candidate profiles with automated feature engineering and preprocessing pipelines
- Applied statistical tests (Chi-square, T-tests) achieving 95% confidence intervals for bias significance testing
- Technologies: Python, Scikit-learn, Pandas, Streamlit, Matplotlib, Seaborn, Statistical Analysis

Licenses & Certifications

- **Data Science for Engineers** - NPTEL (April 2025)
- **Cyber Security** - Alpha Tech Academy (Nov 2023)
- **Fundamentals of Cryptography** - Infosys Springboard (Aug 2023)
- **Fundamentals of Information Security** - Infosys Springboard (Aug 2023)
- **Introduction to Cyber Security** - Infosys Springboard (Aug 2023)
- **Core Java** - Alpha Tech Academy (Dec 2023)
- **ITES** - Seventh Sense Talent Solutions (Jan 2023)
- **C Programming** - Coursera

Extracurricular Experience

Marketing Member at TedX RVCE — Dec 2024–Present
Member at Astra Robotics — Dec 2024–Present
Senior Member at RV QuizCorp — Dec 2024–Present
Member at Kannada CARV — Nov 2024–Present