KOTHA ABHINAYA SRI

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Linkedin , Github , LeetCode

OBJECTIVE

Self-motivated and adaptable CSE (AML) undergraduate passionate about software development, data analytics, and machine learning. Eager to contribute technical expertise, analytical thinking, and collaborative problem-solving skills to dynamic, cross-functional teams across diverse industries.

EXPERIENCE AND RESEARCH

AI Internship – Face Recognition System
(Jun–Jul 2024)

• Built facial recognition using PCA and MLP classifier.
• Achieved 95% accuracy on dataset of 10K+ facial images.
• Visualized classification performance with gallery plots.

Undergraduate Research – Brain Tumor Detection
(Aug–Nov 2024)

• Used Quantum-Inspired Dragonfly Algorithm for segmentation.
• Applied LBP and GWT for MRI feature extraction.
• Improved detection by 15%, reaching 92% segmentation accuracy.

SKILLS

- **Programming: Python,** C, C++, Java, SQL, HTML, CSS, JS
- **ML & Data:** TensorFlow, Scikit-learn, Keras, OpenCV, Pandas
- **Cloud & Tools:** AWS, Azure, GCP, Git, GitHub, Flask, Power BI
- SDLC, Agile, UML, Time Management, Teamwork

PROJECTS

- **FIR filing system using C –** Menu-driven console app with crime categorization, file handling, and IPC mapping.
- **Air quality prediction using** regression – CO, NO_2, SO_2 as features; achieved RMSE 0.14 using Decision Tree, Random Forest, SVM.
- **Student performance prediction** – LightGBM and XGBoost pipeline achieving 98% accuracy; applied label encoding and hyperparameter tuning.
- **Object detection and segmentation using YOLOv11** – Used transformer backbone and pruning; achieved mAP 0.65 (detection), 0.53 (segmentation).
- **Smart expense tracker** – Planned end-to-end using PMBOK: stakeholder map, risk matrix, Gantt chart.
- **Disease prediction system** – Developed CNN + rule-based healthcare prediction web app; integrated SHAP/LIME for model interpretability.

EDUCATION

SR University **2022-2026**

B.Tech in Computer Science & Engineering (AI & ML)

• GPA: 9.0/10, focusing on Artificial Intelligence, Data Structures, and Cloud Computing.

Sri Chaitanya Junior College **2020-2022**

Intermediate Studies in Mathematics, Physics and Science

CERTIFICATIONS

- Google Generative AI Virtual Internship
- Full Stack using Python
- Microsoft Azure Fundamentals
- Data Structures and Algorithms
- Introduction to Psychology
- Software Engineering: Modeling Software Systems using UML

INTERESTS

Passionate about AI and ML research, cloud and edge computing, UI/UX for intelligent systems, and actively engaged in coding challenges, hackathons, and tech blogging.

ACHIEVEMENTS

- Secured top 1% rank in Google Generative AI Virtual Internship assessments
- HackerRank Gold Badge – Python & Java

RELEVANT COURSEWORK

• Introduction to Cloud Computing
• Data Structures and Algorithms
• Machine Learning and Artificial Intelligence
• Software Engineering: Modeling Software Systems using UML

SOFT SKILLS

• Problem Solving and Critical Thinking.
• Effective Team Collaboration.
• Time Management and Task Prioritization.