

Advaith K S

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Objective

Enthusiastic Computer Science student with a strong foundation in Artificial Intelligence, Machine Learning, and Data Analysis. Experienced in developing AI-driven solutions, predictive modeling, and real-time applications. Seeking opportunities to apply my skills in Python, Java, and machine learning while contributing to impactful technological innovations.

Skills

Languages: Python, Java, C

Technologies & Tools: Angular, SQL, Artificial Intelligence, Machine Learning

AI Tools: ChatGPT, Google Bard, DALL·E, Midjourney

Soft Skills: Communication, Teamwork, Problem-solving

Work Experience

JupiterBrother Data Science Private Limited, Tamil Nadu

May 2024 – August 2024

AI & Data Analysis Intern

- Conducted data pre-processing, feature engineering, and model evaluation for AI-driven projects.
- Worked on big data analysis and machine learning algorithms to extract insights.
- Developed and optimized predictive models for inventory management and forecasting.
- Collaborated with a team to enhance data-driven decision-making using AI.
- Developed CAD-based automation solutions to enhance design efficiency and workflow.

Technologies & Tools: Python, Machine Learning, Big Data, AI, Data Pre-processing, CAD Development

Projects Works

Gender and Emotion Recognition System (2024): Developed a real-time gender and emotion recognition system using deep learning and computer vision. Integrated MobileNet for gender classification (97% accuracy) and EfficientNetB4 for emotion detection (88% accuracy), ensuring reliable real-time analysis. Implemented a Tkinter GUI with live camera feed.

Technologies Used: Python, TensorFlow, Keras, OpenCV, Tkinter

Student Exam Portal (2024): Developed a JavaFX-based secure examination portal that allows students to access their marks using unique credentials. Implemented a role-based authentication system, ensuring secure login for both students and administrators. Integrated a dedicated admin interface to upload, update, and manage exam results efficiently. Designed an intuitive UI for seamless navigation, enhancing user experience. Improved data management by optimizing SQL queries, reducing response time for mark retrieval.

Technologies Used: JavaFX, SQL

Bitcoin Price Prediction (2023): Designed and implemented a predictive model for Bitcoin price forecasting using historical market data. Leveraged advanced machine learning algorithms, including ARIMA, LSTM, XGBoost, and GRU, to analyse trends and generate accurate price predictions. Evaluated model performance using Root Mean Square Error (RMSE), achieving a low RMSE of 0.0128, ensuring high prediction accuracy.

Technologies Used: Python, Pandas, NumPy, Scikit-learn, TensorFlow

Publications

Unveiling Cryptocurrency Markets: A Comprehensive Exploration of Time Series and Deep Learning Models for Bitcoin Price Prediction

Under Review in ICAICGD-2024

This comprehensive study examines various time series and deep learning models for Bitcoin price prediction, providing insights into market trends and predictive analytics.

Enhancing Speech Audio Emotion Recognition for Diverse Feature Analysis through MLP Classifier ***Published in IEEE,2024***

This research focuses on improving emotion recognition in speech audio using diverse feature analysis with a Multi-Layer Perceptron (MLP) classifier, demonstrating enhanced accuracy in emotional detection.

[Link](#)

Application of AI in the Mining Industry

Published in the IE Student Chapter (2023)

This article explores the transformative impact of artificial intelligence on the mining sector, highlighting innovative applications and future trends.

[Link](#)

Certifications

Python Course – Kaggle

Foundations: Data, Data Everywhere – Coursera

Programming in Python, Java, and C – NPTEL

Extracurricular & Leadership Activates

Member, Computer Society of India (CSI): Organized quiz events to foster knowledge sharing among students.

Public Relations & Outreach Head, GeeksforGeeks RIT Student Chapter: Led outreach initiatives and managed PR to enhance chapter visibility.

Member, RIT Clustra: Coordinated a poster design event, promoting creativity and collaboration.

Member, RIT Handball Team: Represented the team in tournaments, fostering teamwork and sportsmanship.

Education

Ramco Institute of Technology, Tamil Nadu

August 2021 – Present

B.E. in Computer Science and Engineering

CGPA: 7.8/10

Relevant Coursework: Object-Oriented Programming, Databases, Discrete Mathematics, Data Structures & Algorithms, Operating Systems, Computer Networks, Machine Learning, EDA