Gagana Ananda

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EDUCATION

Northeastern University, Boston, MA   September 2022 - May 2024
Khoury College of Computer Sciences
Master of Science in Computer Science
Related Courses: Machine Learning, Natural Language Processing, AI, Cloud Computing, Programming Design Paradigm, DBMS, Algorithms.

Global Academy of Technology, Bengaluru, INDIA   August 2017 - August 2021
Bachelor of Engineering: Computer Science Engineering
Related Courses: Object Oriented Concepts, Design and Analysis of Algorithms

TECHNICAL SKILLS

Programming languages: Python, C, Java, SQL, Swift.
AWS (cafe scenario): Amazon EC2, RDS, S3, VPC, Lambda, CloudFront, CloudWatch, IAM, Auto Scaling.
Web applications: HTML, CSS, PHP, XAMPP server, MySQL server, SQL workbench, Flask web framework and JavaScript.
DevOps bootcamp: Jenkins, Docker, Kubernetes, Ansible, Terraform.
Technical platforms: IntelliJ, MongoDB, Visual Studio Code, Jupyter-Notebook, GitHub, XCode, CLI.

EXPERIENCE

Khoury College of Computer Sciences, Boston, MA   May 2023 - April 2024
Teaching Assistant for Mobile Application Development Course
- Specialized in iOS app development using XCode and UIKit, provided comprehensive debugging assistance, and mentored students.
- Streamlined data storage with Firestore for 10+ projects and utilizing API connections through Postman for data handling.

Teaching Assistant for Human Computer Interaction Course   January 2024 - April 2024
- Employed HCI principles to elevate user experience, employing iterative prototyping across multiple software applications.
- Integrated user feedback into 5+ distinct applications, optimizing usability and functionality to meet user needs.

Psitron Technologies Pvt. Ltd, Bengaluru, India   August 2020 - November 2020
Software Developer Intern
- Developed predictive maintenance for numerous units with AWS IoT, liaising with a college intern for OPCUA/PLC integration.
- Orchestrated deployment of AWS Lambda for edge devices, enabling real-time data capture and equipment performance metrics.
- Directed AWS SiteWise for efficient data collection and analysis, driving improvements in equipment performance and production output.

Silicon Microsystems and Ximax Skill University, Bengaluru, India   July 2020 - August 2020
Student Intern
- Deployed a cutting-edge employee wage prediction model with a 97% R-squared score, improving wage handling.

Tequed Labs: Research and Innovation Hub, Bengaluru, India   January 2020 - February 2020
Student Intern
- Managed a team of 4, creating an Android app for attendance tracking, slashing admin tasks by 50%, gaining acclaim for technical innovation.

ACADEMIC PROJECTS

Connect 4 AI Agents with Scalable Difficulty Algorithms, Artificial Intelligence   January 2024 - April 224
Tech Stack: Minimax, Expectimax, Alpha-Beta, Monte Carlo Tree Search (MCTS).
- Designed a Connect 4 AI, utilizing heuristics, Minimax, Expectimax, and MCTS.
- Enhanced AI tactics for engaging gameplay and comprehensive performance metrics.

Stock Price Prediction, Machine Learning   September 2023 - December 2023
Tech Stack: Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Regression, Decision Tree, ARIMA, SARIMA, and Cross Validation.
- Collaborated deploying on 5+ machine learning models for stock prediction, applying time series and feature engineering.
- Carried comprehensive model evaluation, addressing overfitting issues, performed error analysis for optimized financial decision-making.

Genre-based Movie Dialog Generator, NLP   May 2023 - August 2023
Tech Stack: Seq2seq model, Bidirectional LSTM, GRU, GPT2LMHeadModel, and K-Fold Cross Validation.
- Applied 2 seq2seq models & pre-trained transformer for genre-based movie dialogue.
- Displayed LSTM with attention, GRU, K-Fold Cross Validation, memory methods, 30-epoch training.

Portfolio System, Program Design Paradigm   October 2022 - December 2022
Tech Stack: Java, Junit Testing framework, APIs, Java Swing, Design Patterns, and MVC Architecture.
- Created MVC (Model-View-Controller) concept to build a custom virtual stock portfolio and simulator for a high-value client, boosted investment tracking efficiency and enhanced performance.
- Connected with APIs, allowing users to buy and sell 0–100% shares from companies on current stock market.

Wander Lust Android App, Mobile Application Development   January 2023 - April 2023
Tech Stack: Android Studio, Java, XML, Google Maps API, Firebase, Gradle, and Libraries (Picasso | Glide).
- Initiated and built an Android app for travelers to store, share, and publish 100+ travel stories with multimedia and itineraries.
- Included user-friendly features: temperature updates, duration insights, and storage for numerous favorite stories.

Real Time Vehicle Theft Detection System, Internet of Things   August 2020 - July 2021
Tech Stack: Raspbian OS, Python IDE 3.7.3, Putty, and VNC Viewer.
- Implemented a Raspberry Pi-based IoT vehicle security system with sensors and GPS, reducing intrusions by 90%.
- Authored a technical paper about system, published in the CiiT International Journal.