ADARSH GADEKAR

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EDUCATION

University of Southern California, Los Angeles, USA **Graduating in May 2024**
Masters of Science in Computer Science
Coursework: Algorithm Analysis, Database Systems, Artificial Intelligence, Information Retrieval and Web Search Engines, Advanced Mobile Devices and Game Consoles, Machine Learning for Data Science.

Vidyalankar Institute of Technology, Mumbai, India **Class of 2022**
Bachelor of Computer Engineering
Coursework: Database Systems, Multimedia Systems Design, Operating Systems, Web Technologies

TECHNICAL SKILLS

- **Languages:** Python, C, C++, Java, Javascript, Dart, Bash, SQL
- **Web Technologies:** HTML, CSS, Bootstrap, React, jQuery, Node.js, Next.js, Express.js, MongoDB, AWS
- **Relevant Skills:** Pandas, NumPy, Seaborn, Tensorflow, NLTK, Scikit, Firebase, Jupyter, Git, Flutter, PostgreSQL

EXPERIENCE

TCR Innovation **Mumbai, India**
Data Science Intern June 2021-August 2021

- Predicted 120,000 used car prices based on mileage, model, year, and deployed K-means, Linear Regression, Random Forest, and Gradient Boost machine learning algorithms with an accuracy of 96% leading to 18% profitability.
- Developed an HR analytics model, increasing employee satisfaction by 11%; revised recruitment approach, cutting time to fill by 22%; Data-driven performance reviews resulted in a 31% improvement in productivity.
- Designed a Next Word Prediction, a neural network by building LSTM Model for classifying, processing, and making predictions based on time series data using TensorFlow.

ACADEMIC PROJECTS

Pente Game – Artificial Intelligence | Python3, NumPy

- Implemented minimax with alpha-beta pruning algorithm to create a Pente-game playing agent.
- Designed heuristics to identify the optimal placement for game-winning moves.
- Allowed agent to play at different depths, depending upon the game time remaining.

Trojan Trek Blog Platform - Website | React, MongoDB, Express.js, Node.js, HTML, CSS

- Engineered a dynamic blog site using Node.js, Express.js, and React, enhancing UX through intuitive routing.
- Implemented MongoDB for data storage and authentication, ensuring secure and efficient user access.
- Leveraged AWS S3 for streamlined image handling, optimizing load times and overall site performance.

First-Order Logic Resolution for Automated Dining System – Artificial Intelligence | Python3

- Applied FOL Resolution for AI dining automation, optimized through CNF conversion and efficient reasoning.
- Merged CNF-encoded data with a resolution system, enhancing decision-making for dining tasks.
- Utilized forward chaining and negation resolution, ensuring reliable outcomes for automated dining.

Sentiment Analysis of Twitter Comments – Natural Language Processing | Seaborn, NLTK, TensorFlow

- Classified Twitter comments as positive, negative, or neutral and analyzed them based on their sentiments.
- Pre-processed data (tokenized, stemmed, removed stop words) for better accuracy.
- Utilized Logistic Regression for sentiment classification (89% accuracy); Explored Naïve Bayes (85%) and SVM (87%).

Konnect – Mobile Application Development | Flutter, Firebase, Adobe XD

- Developed a cross-platform college networking app (Android and iOS), serving 2000+ students for skill-sharing.
- Integrated chat groups, interactive post pages, story tab, and college email-based authentication.
- Spearheaded front-end and back-end development of critical components: Post Page, Chat Page, Group Admin System.

LEADERSHIP AND INVOLVEMENT

Computer Engineering Students Association **Mumbai, India**
Tech Team member August 2019-August 2020

- Organized workshops on Firebase, Blockchain, DevOps, and Google study jam on Cloud.
- Contributed to the design and development of the CESA website.