VINEET DHAIMODKER

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EDUCATION

Master of Science - Computer Science, **University of California, Riverside:** *Riverside, California*   *Sept 2021- Present*
Artificial Intelligence, Machine Learning, Spatial Computing, Advanced Software Testing & Analysis, Advanced OS   ***3.7/4.0***

Bachelor of Engineering in Computer Science, **National Institute of Technology Goa,** *Goa India*   *Jun 2020*
Design & Analysis of Algorithms, Object-Oriented Programming, Database management systems, Data Warehousing & Data Mining

Awards/Interests: Semicolons Annual Global Hackathon (2nd out of 50+ teams), Hacktoberfest Open source contribution Challenge by DigitalOcean(2020, 2021)

PROFESSIONAL EXPERIENCE

Data Science Intern, - *Western Digital, Remote, CA, US* **(Jira server REST API, Word2Vec, BERT, Keras)** *June 2022 – Aug 2022*
- Extracted duplicate Jira bugs using Jira server REST API and curated a custom dataset of duplicate Firmware bugs
- Leveraged BERT to obtain text embeddings of bug reports and developed a NN classification model with an F1 score of 0.87

Software Engineer - *Persistent Systems, India* **(Java, MySQL, Postman, SOAP UI, Groovy, Elasticsearch)**   *Oct 2020 – Aug 2021*
- Analyzed, implemented, and tested Saviynt software - Identity and Access Management Governance Platform
- Customized configurations and applied patches for connectors with LDAP, OAuth2, SAP, Service Now, office 365 mailbox, Active Directory, and many more applications
- Developed custom query jobs and deployed analytic controls to help the customer interact with the database and pull out the vital information they need in an optimized manner
- Conducted extensive testing, bug fixing, UAT defect troubleshooting, and provided migration support for Saviynt Identity Management system

AI Research Intern - *Persistent Systems, India* **(Python - spaCy, scispaCy, NumPy, pandas)**   *May 2019 – Aug 2019*
- Trained a Named Entity Recognition (NER) model for Natural Language Processing (NLP) of clinical health records
- Implemented NER models from SpaCy & SciSpaCy libraries and observed that SciSpaCy en_ner_bc5cdr_md model with pre-training performed the best with an F1 score of 0.846

Android Development Intern - *Helix Tech, India* **(Android Studio, Java, XML, Retrofit, Volley)**   *Dec 2018 – Jan 2019*
- Developed an Android app to provide efficient parent-teacher communication with features like chat, grading, feedback, etc
- Applied Material design to build frontend in Android Studio (Java, XML), Implemented Restful API using Retrofit & Volley

PROGRAMMING PROJECTS

Pac-Man (Python - Search Algorithms) https://github.com/Vineet-Dhaimodker/Pac-Man   *Oct 2021 - Nov 2021*
- Developed search algorithms like BFS, DFS, UCS, A* and designed admissible and consistent heuristics for A* search in python

Occupancy Prediction System (Python - scikit-learn, NumPy, pandas)   *Oct 2021 - Nov 2021*
- Engineered an end-to-end smart system to detect occupancy of a room based on Spatio-temporal factors like CO_2 concentration, room air humidity, room temperature, and luminosity using algorithms like Random Forest, Decision Tree, KNN, MLP, etc
- Observed that the Random Forest classifier performed the best with an F1 score of 0.969

Sports Search Engine (Java, Hadoop, MapReduce, HTML, CSS, MongoDB, Spring Boot)   *Jan 2022 - Mar 2022*
- Built a Sports Search engine by crawling Wikipedia pages and indexing them using Lucene and Hadoop Map Reduce
- Stored the indexed files in MongoDB and integrated Spring Boot to access indexing data and display results on a simple web interface

CAPSTONE: Energy Optimization for IoT Deployment (Python - pygmo, DMCKP)   *Oct 2019 - Jun 2020*
- Developed a dynamic programming approach for IoT energy optimization and compared the Multiple-choice Knapsack problem with the existing greedy heuristic approach, Genetic and Particle Swarm Optimization algorithms
- Formulated the energy optimization problem as a multi-objective problem and compared the performance of Evolutionary Multi-objective Optimization (EMO) algorithms like NSGA-II, NSPSO, MOEAD, MACO

Flight Ticket Booking System (HTML - CSS - PHP - MySQL)   *Oct 2018 - Nov 2018*
- Created a website to enable users to enter the source and destination boarding points and book flight tickets

Novel Intelligence Scale Based on EEG Data (Matlab - HELM - WPT)   *May 2018 - Oct 2018*
- Designed a novel intelligence scale using Wavelet Packet Transform & Hierarchical Extreme Learning Machine for classification
- Classified students as low, medium & high intelligence based on data analysis on ~256 data points. Achieved 80% training accuracy and 73.33% testing accuracy

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, JavaScript, HTML, CSS, Bootstrap
Databases and Frameworks: SQL, MySQL, MongoDB, REST, Retrofit, Flask, NumPy, pandas, spaCy, scispaCy
SDE Tools: VS Code, Eclipse, Intellij IDEA, Android Studio, Docker, Postman, Git, Linux, Jira, Google Colab