

# 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 **3.8/4.00**

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 (2<sup>nd</sup> out of 50+ teams), Hacktoberfest Open source contribution Challenge by DigitalOcean(2020, 2021)

## PROFESSIONAL EXPERIENCE

**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 Intern - Persistent Systems, India (Python - spaCy, scispaCy)** *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 parents & 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)** *Oct 2021 - Nov 2021*

- Engineered an end-to-end smart system to detect occupancy of a room based on Spatio-temporal factors like CO<sub>2</sub> 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

**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, REST, Retrofit, Flask, NumPy, pandas, spaCy, scispaCy
SDE Tools:	Visual Studio, Eclipse, Android Studio, Docker, Postman, Git, Linux
Miscellaneous Tools:	Latex, Photoshop, Premiere Pro

## LEADERSHIP EXPERIENCE

**Event Manager - Saavyas Techno-Cultural Fest, NIT Goa** *Apr 2018 – Apr 2019*

- Street Play, Robot Wars: Managed planning and execution of the event, scheduled and assigned tasks, motivated, and evaluated staff