

Parth Jayantilal Jain

San Jose- 95110 | parthjain.pj1994@gmail.com | +1 (669)264-6903
<https://www.linkedin.com/in/parth-jain-8a09abb6/> | <https://github.com/parthpunkster>

SUMMARY

Master of Science student in Computer Science. Experience in Software Development, Web Development, Machine Learning, Artificial Intelligence(AI), Deep Learning, Android App Development.

EDUCATION

San Jose State University, San Jose

Expected: May 2019

Masters in Computer Science(GPA of 3.55/4)

Courses: Topics in Artificial Intelligence, Advanced Programming Language Principles, Advanced Computer Architecture, Big data and Machine Learning, Distributed Systems, Social Network, Machine learning with Information Security.

VIT, Mumbai, India

August 2016

Bachelor of Engineering in Computer Science with *First Class* (GPA of 7.47/10).

Relevant Courses: Data Structures, Algorithms, Operating Systems, Applied Mathematics, Structured and Object Oriented Programming, Database Management, Compiler Construction, Web Technology, Mobile Computing, Artificial Intelligence.

PROFESSIONAL EXPERIENCE

Trinet Inc., Dublin, California

June 2018-August 2018

Software Developer Intern - (JAVA, SpringMVC, Hibernate, PHP, MYSQL, HTML, CSS, JAVASCRIPT)

- Implemented access control for displaying menus based on criterias like role, position, department and company.
- Implemented a new service which displays the status of all the API's which are currently under maintenance and all its related details like effective date, time of completion and level of alertness.
- Implemented the automation process of onboarding new employees and improved developer productivity.

Prisms Infosystems Pvt. Ltd., Pune, India

July 2016-July 2017

Software Developer - (JAVA, PHP, MYSQL, HTML, CSS, JAVASCRIPT)

- Designed the structure and developed the student web portal for multiple schools.
- Developed a feature of generating question papers using the EAD method and grouping questions from the bank.
- Assisted in adding customizations like super admin and attendance modules.
- Developed the android application Top School which is based on the web portal. [Play Store Link](#)
- Implemented changes in the admission enrolment module such as online applications for enrolment and acceptance and rejection letters to be sent via email.

SELECTED ACADEMIC PROJECTS

Job Recommender system by scraping the websites (Python) [GitHub Link](#)

- Implemented a web scraper for jobs websites based on the keyword and location given by user using a parser library.
- Developed the KNN classification algorithm on scraped data stored locally. Optimized the solution to use locally cached data to perform classification with an accuracy of 88% for 9 as the nearest neighbour.
- Executed K-Means clustering to cluster the jobs based on the given keys with an accuracy of 84%.

Image Classification system using Deep Learning (Python, Keras, Scikit, Numpy, Pandas)

- Implemented CNN algorithm to classify the images scraped from different websites in headshots and landscapes using pillow library and Keras, with an accuracy of 81% for 3 fold cross validation.
- Executed Single and Complete linkage hierarchical clustering with an accuracy of 80 and 84 % respectively.
- Used Genetics Algorithm to transform a flag of one country to another country, with an accuracy of 88%
- Implemented a K-Means clustering to cluster the images, with an accuracy of 87%.

Travelling SalesPerson Problem solver (Python) [GitHub Link](#)

- Executed Genetics Algorithm using pyevolve library, Greedy Algorithm and A-Star algorithm to solve TSP problem on DIMACS dataset, where A-star gave the optimum solution.
- Implemented Minimum Spanning Tree(MST) as one of the heuristic function for A-Star using Kruskal's Algorithm.

Heart disease Risk detection using Machine Learning Algorithms (Python, Android, Google Firebase) [GitHub Link](#)

- Implemented a heart disease risk predictor by tracking the pulse rate continuously using Android wear and added a notification system for notifying the user's family members through their Android mobile.
- Used KNN algorithms to calculate the risk of a heart attack by using UCI Heart disease dataset with 50% accuracy.
- Used Firebase as the real-time database for this project to continuously update the user's pulse rate from the wear.

Text Summarization and Generation (Python, Keras, Scikit, Numpy, Pandas, NLTK)

- Implemented text generation using LSTM algorithm with an accuracy of 91% for Gutenberg book.
- Used NLTK library for text summarization of various Gutenberg books.
- Generated music using the text from gutenberg book using Jython library.

SOFTWARE SKILLS

- Programming Languages: C, C++, Java, Python, MySQL, Android, Haskell, Scala. | O.S: Linux, Mac OS, Windows.
- Web Technologies: HTML, CSS, PHP, Javascript, Node.js. | Databases: Oracle, MySQL, Firebase.
- Tools: Amazon AWS/EC2, Git, Android Studio. | Frameworks: TensorFlow, Keras, MapReduce, Hadoop, Apache Spark.