

PALLAVI CHANDRASHEKAR

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Education

- **Master's in computer science**
Illinois Institute of Technology, Chicago Expected Graduation: **May 2020**
- **Bachelor of Engineering in Computer Science and Engineering**
Maharaja Institute of Technology, Mysore **Aug 2011- Jun 2015**

Technical Skills:

- **Programming Languages:** Python, R, Java, C, C#.
- **Technologies Frameworks:** Hive, SparkSQL or Apache Spark and Pig, AWS, JSP, DynamoDB, Android, HTML, CSS, MySQL, MongoDB.
- **Machine learning Algorithms:** TensorFlow, Keras, K-Fold cross validation, Girvan Newman.

Academic Projects:

- **Big Data Analysis on H1-B Visa Petitions 2011-16** Jan 2020
 - The project is on a dataset that contains 100,000 to 500,000 records and performance analysis is done using **Hive** with **Tez** and **MapReduce**, **SparkSQL** and **Pig**. It compares the performance with SparkSQL, Hive and Pig
- **Built a shopping website using java** August 2019
 - Developing a web application using **Servlets**, **JSP**, **MySQL**, **MongoDB**.
 - Based on User purchases will recommend products to user. By using the details of different deals will give price matched guarantee.
- **Analyzed the brand 'Nike' for its men and female users** April 2019
 - Collected tweets on 'Nike'. Used US census data to get the male and female names in US and used it to classify tweet users. Used **Girvan Newman** method to detect communities from the users.
- **Text classifier to determine whether movie review is positive or negative sentiment** March 2019
 - Used Data from IMDB.com, tokenized the reviews based on punctuations, removed the repeated words in the review. Calculated the count of positive and negative words in the review. Based on the count classified the review as positive or negative.
 - Used different ways to preprocess the data and calculated the accuracies of both approaches using **K-Fold cross validation** method.
- **Movie Recommendation System for user based on the ratings given by user** February 2019
 - Used Content based recommendation algorithm. Used data from MovieLens project. To predict the rating of user **u** for movie **i**: Compute the weighted average rating for every other movie that **u** has rated. Restrict this weighted average to movies that have a positive cosine similarity with movie **i**. The weight for movie **m** corresponds to the cosine similarity between **m** and **i**.
- **Convolution neural network to identify the input image number is even or odd** November 2018
 - Used MNIST dataset to train the classifier. Developed 2 convolutional and pooling layers with 32 and 64 filters of kernel size 5*5. Used **Keras** to build the **CNN**. Trained the CNN using **MNIST** dataset and then modified the CNN to read input image by the user and classify the number as even or odd.

Professional Experience

SAP Fieldglass – SAP iXp Intern

June 2019 – Present

- Using mrjob library on **EMR** Cluster did analysis like counting the number of words in the given document, classifying the salaries of Baltimore municipal workers as High, Medium and Low, Counting the number of movies each user has reviewed.
- Deployed projects on **AWS**, setting up **Hadoop** Cluster, created **S3** bucket, used **Hadoop Distributed File System (HDFS)** to store files, creating **DynamoDB** to store the data.

SAP Labs India – Software Engineer

Aug 2015 - July 2018

- Built models to study customer satisfaction of SAP CPI and deployed the models in **Google cloud** as well as **SAP Cloud foundry**.
- Built fully **Convolution Network** for Object detection in both static and dynamic Videos.
- Created **Docker** images to run the **Jenkins** jobs.