

Pooja Choudhari

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Education

Master's in Information Technology Management - Data Management (Graduation Date May 2020)

- Illinois Institute of Technology, Chicago - Current GPA 3.7/ 4.0

Bachelor of Business Management Studies (May 2013)

- University of Mumbai, India - GPA 3.8/ 4.0
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Skills

- Languages and Databases: Python, R, HTML, Bash, MySQL, NoSQL, SQL Server, Oracle.
 - Statistical and Data Visualization Tools: Tableau, Power BI, Scipy, Seaborn, Matplotlib, MS Excel.
 - Big data Technology: Hadoop, Apache Spark, Hive, Pig, MapReduce, Yarn.
 - ML Algorithms: Linear Regression, PCA, Lasso, Ridge, GLM, Time Series, Classification, Clustering, XGBoost, A/B Testing, NLP, Neural Networks.
 - Deep Learning Libraries: TensorFlow, Keras, NLTK, Gensim, SpaCy, OpenCV.
 - Cloud Technologies - AWS- IAM, EC2, S3, Lambda, ELB, SNS, DynamoDB, RDS, Redshift(ELT).
 - Experience with Linux/ OS X command line, Git.
 - Soft Skills - Communication, Critical Thinking, Problem Solving, Curiosity, Solid Business Acumen, Collaboration.
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Work Experience

Data Analyst Intern, Wide Open West (WOW!) Internet Cable and Phone

(Jun 2019 - Aug 2019)

- Experienced working with the engineering and data science teams to brainstorm new features, build, test, and groom complex requirements into plain user stories.
- Demonstrated ability to cleanse, categorize, and synthesize data from multiple sources/formats, applied statistical analysis models like Logistic Regression, Decision Tree, Random forest, etc in Python to identify patterns and understand customer behavior and churn rate.
- Created interactive reports and complex dashboards in Tableau suited to different cross functional teams use cases reducing teams manual effort by 20%.
- Received WOW! Spirit of service award for my overall contributions.

Business Analyst, Tekdi Computer Solution, Pune India

(Jan 2014 - Aug 2016)

- Work closely with business partners to grow relationships and promote a data-driven partnership.
 - Implemented pivot tables, vlookup and charts in Excel for summarizing data from various sources.
 - Adopted AWS Simple Notification Services(SNS) for push notifications to existing and prospective customers.
 - Proposed a new normalized backend relational database model to maintain data consistency and integrity.
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Academic Projects

- **Cloud Native Image Processing Web Application**
Deployed and Monitored a 3 tier cloud native application using various AWS Services(IAM, EC2, S3, Lambda, ELB, SNS, DynamoDB, Git) to transform raw images to B/W images served via load balancers(ELB). Received Professor's recommendation for the high quality work: https://www.truaccolades.com/app/profile/14099#accolade_3336
- **Movie Recommendation Engine**
Implemented cold start to make sure users in the test dataset are present in the training dataset. Applied User Based Filtering by calculating similarities between users and the ratings using Pearson correlation to predict rating in test dataset. For Item Based Collaborative filtering, calculated item similarities metric and ratings already given by user to all the similar movies. Used MAE and RMSE metrics to check the accuracy of the model and the errors.
- **Fire Department Incidents Analysis**
Categorized more than a million fire incidents into 64 high level known categories using Jupyter notebooks. Performed Exploratory data analysis on how effectively firefighters were able to control critical fire situations, the average time taken for the units to arrive in cases of natural disasters, cooking fires and malicious false alarms etc.
- **Black Friday Sales Analysis**
Implemented various classification models like KNN, Naïve Bayes and logistic regression to predict the customer purchase pattern in R and evaluated the best model with highest accuracy using MAE and AIC metrics.
- **Employment Rate Analysis**
Outline the employment trend on the basis of Gender and Age using Time Series(ARIMA and SARIMA) models with N- fold Cross validation method in R. Instrumented survey creation and targeted different focus groups to better quantify the results.
- **S3 Interlock - Cloud Data Management Application Project**
Developed a Java application with MYSQL backend to provide a common interface for users to perform standard S3 HTTP requests focused on ease of working in a hybrid or a multi-cloud environment.