

Venkata Prudhvi Raj Indana

Bloomington 47408 (INDIANA) | 812-650-8032 | indana.prudhvi.2050@gmail.com | <https://github.com/prudhv16>

EDUCATION

Indiana University Bloomington	May 2017
Master of Science in Data Science	
Gitam University, Visakhapatnam	May 2012
Bachelor of Engineering in Electronics and Communication	

TECHNICAL SKILLS

Programming Languages: Python, R, C#, SQL, Javascript, Java, Mainframe, CICS, Hadoop, pyspark

Databases: - MySQL, PostgreSQL, Oracle SQL, SQL Server, Microsoft Access, IBM DB2

Tools: - Tableau, R-Studio, Jupyter, PIG, Google Analytics, JIRA, Bugzilla, Hive, WEKA, Git, Github, Markdown, Excel, Redshift, Confluence, Google Cloud, Remedy.

Statistical Methods and Mathematics: - Hypothesis testing, Probability, Calculus, Linear Algebra

Data Science Libraries:- Deep learning, Tensor-flow, Keras, scikit-learn, pandas, numpy, matplotlib, seaborn, ggplot2, RMySQL, Gmodels, class, wordcloud, Deep learning, pyspark, D3

ACADEMIC COURSES AND PROJECTS

Courses: Introduction to Statistics, Algorithm Analysis and Design, Data Mining, Exploratory Data Analysis, Artificial Intelligence, Applied Machine Learning, Information Retrieval, Machine Learning, Multivariate Data Analysis, Machine Learning in Bioinformatics.

- Design and Implementation of N-Queens and N-Rooks problem using BFS, DFS, A*(A Star) Search Techniques.
- Design and Implementation of determining best routing option based on segments, distance, time and scenic criteria between given pair of cities using BFS, DFS, IDS, A* Search Techniques.
- Implementation of adversarial games like Tetris and nkcch games using alpha-beta pruning and minimax algorithms.
- Model to predict Part-Of-Speech using First Order Hidden Markov Model (HMM) and Second Order HMM through implementation of Viterbi Algorithm, Variable Elimination, Gibbs Sampling.
- Implementation of Hand Written Digits Images Recognition Model using CNN (Keras) and SVM (Scikit Learn) algorithms.
- Designed and implementation of KNN to train / predict orientation (multiclass problem) of input image using accuracy and Confusion matrix as metric. Compared its performance with implementation of Adaboost, Neural network models results generated for the same problem and comparing its result with the results from KNN.
- Designed and implemented a Hadoop mapreduce program to get top selling product and its revenue in each category in a retail dataset.

WORK EXPERIENCE

Software Developer Intern	Bloom Insurance agency, Bloomington, IN	Jun 2017 - present
<ul style="list-style-type: none">• Responsible for enhancing and testing of Bloom's technology product – Ascend Web Application. Which is an online quoting engine and sales management application for insurance agents.• Responsible for design and development of web applications for real time insurance-agent management system.		
Data Analyst Intern	Arborsgold Software, Bloomington, India	May 2016 – Aug 2016
<ul style="list-style-type: none">• Analyzing data Creating a new reporting tool (Owners app Dashboard) generating various reports plotted on web interface using MVC C#, Javascript, SQL Server, server and kendo UI.		
Software Developer	United Health Group	Dec 2014 - Aug 2015
<ul style="list-style-type: none">• Requirement gathering by having daily meetings with project sponsors and stakeholders to understand business problem.• Engaged in bringing the structure to each request and translate requirements into an analytic approach.• Developed a classification model based on claim data to predict the probability of new claim being rejected.• Achieved an accuracy of 86% after model parameter tuning and 10 fold cross validation.		
Software Developer	Computer Science Corporation, India	Jul 2012 – Dec 2014
<ul style="list-style-type: none">• Conduct A/B tests to measure/ improve performance of UI/UX and KPI in a data driven manner.• Involved in Software development lifecycle from requirement gathering by having daily meetings with project sponsors and stakeholders to understand business problem, development and testing.• Implemented a Logistic regression model to access risk index of new customer to diseases using 10 fold cross validation and achieved 73% accuracy. Assisting clients in creating Move it FTP jobs to importing data from client location to local server.• Build data pipelines that import data from local server to IBM Z/OS, validates input data and rejects / recycles / processes payments for claims in data using stored procedures written in COBOL.		