

Ambika Chundru

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EDUCATION

The Pennsylvania State University | GPA:4.0/4.0

Aug 2021 - Dec 2022

Masters in Data Analytics (STEM designation)

Courses: Deep Learning, Data Mining, Large Scale Database, Data Visualization, Statistics, Predictive Analytics

Christ University | GPA:3.21/4.0

Bachelors in Electronics and Communication (Computer Science Minor)

Jun 2016 - Nov 2020

Achievements: 3rd in inter university project fair, Distinction in Data Analytics, Participated in Hackster.io project faire

Courses: Artificial Intelligence, Data Structures, Database Management, Data Analytics through SPSS.

SKILLS

Proficient Skills: Python, R, Minitab, Tableau, MATLAB, Dia, SPSS, Excel, SQL, Qlik, Knime, PowerBI,

Working Knowledge: Java, C, HTML, CSS, Javascript| **Languages:** English, Hindi

EXPERIENCE

The Pennsylvania State University

Data Science Research Assistant

Oct 2021 - Dec 2021

- Built dockerfile to deploy custom docker images and managed the containers using docker swarm.
- Operated with a modular and model agnostic framework for hierarchical federated machine learning for horizontal scaling.

Northeastern University

Data Analyst Intern

May 2019 - Jun 2020

- Performed feature reduction, outlier detection and handled missing data of the Facebook ad campaign data.
- Identified campaigns producing less yield by analyzing their reach, frequency, impression rate and recommended a cost-effective business model reducing the company's expense by \$ 70 thousand.

Tentwenty Digital

Deep Learning Intern

Dec 2019 - Feb 2020

Web Developer Intern

Apr 2019 - May 2019

Web developer Intern

Apr 2018 - May 2018

- Developed domain-specific Chat-bots using TensorFlow, NLTK and integrated the trained model with websites improving Human-Computer Interaction.
- Identified traffic trends, pathing issues, and opportunities to improve site conversion rates and click-through rate.
- Designed websites for international clients using JavaScript, CSS3, HTML5, and content management systems.

PROJECTS

Bank's Customer attrition Analysis & prediction

Dec 2021

- Forecasted customer attrition ratio by analyzing their behavior and compared the performance of 5 classifiers.
- Performed outlier detection, data preprocessing, feature reduction ,and model building followed by model optimization by performing grid search in the hyper-parameter space.
- Analyzed the models to build business models, improving the customer retention rate for existing customers.

Restaurant Database Management System

Sep 2021

- Created conceptual, logical and physical data model designs, followed by normalization resulting in minimizing the redundancy from a relation or set of relations.
- Used Oracle SQL, used to communicate with a database to perform information retrieval and updating tasks.

Deep Learning Approach To Automate Assembly Inspection

Oct 2020

- Developed an algorithm distinguishing and identifying the orientation of the manually assembled parts using Darknet, TensorFlow, and a self-built neural network algorithm on Python with 97.4% accuracy.
- Improved overall work efficiency by 14%, by predicting peak faults using machine learning algorithms on 160 employee's performance.

Nextraff: Automatic Traffic Management

Feb 2019

- Automated traffic management on a road junction by integrating IoT, Data Analysis and Computer Vision to mitigate traffic congestion.
- Modeled the system to detect emergency vehicles on a road and assigning signals to the lane to optimize time.
- Represented Christ University in an inter-university project fair and in a competition organized by Hackster.io