Ashwin Senthilkumar

A Self learned, skilled, competent, and diligent with significant experience in Data science field. Strong in design and integration with intuitive problem-solving skills. Proficient in C, C++, PYTHON, and SQL. Passionate about implementing and launching new projects. Ability to translate business requirements into technical solutions. Strong willingness to exhibit my proficiency in Analytical tools, Statistics and Computing Methodologies in the professional environment.

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TECHNICAL (IT) SKILLS

Programming Language: Python, Pytorch, C++, TensorFlow, C, SQL, Rstudio.
Software / Tools: Azure Cloud platform, Google cloud platform, MS Power BI, MS spreadsheet, Docker, Flask, SQL server.
Skills: Data visualization(Seaborn, plotly, Power BI), Machine Learning, Deep Learning, Computer Vision, Forecast, Pattern and Trend identification, Statistical Analytics, Data wrangling, Graph network(GNNs), Experimental design & analysis, Natural Language Processing, APIs

EXPERIENCE / INTERNSHIP

Summer Research Intern
Centre of Advanced-Data Science Jun - Aug 2021

- Conceptualized and developed a Spatial-Temporal Graph Convolutional model for disease prediction. Designed a model to train upon different time instances of graphs based on stages of the diseases with an accuracy of 94% for 100 different diseases classes.

Head of Analysts
Data Analytics Club 2021 - Present

- Design data modeling processes to create algorithms and predictive models and perform custom analysis. Manage multiple generally small to mid-size size projects and Coordinating analyst channel to clearly convey key project operations

Technology consulting virtual Internship
Deloitte Feb- 2021

- Conducted an initial market understanding scan to evaluate and select a new financial accounting system. Evaluated the market understanding with potential solutions. Prepared a high-level overview of cloud computing for client meetings. Conducted an analysis and recommend applications for transitioning to the cloud.

Data Analyst Intern in Data@ANZ program
ANZ Jan- 2021

- Conducted EDA on the segmented data and draw unique insights, include visualization of transactions volume and assessing the effect of any outlines. Demonstrate correlation between customer attributes, develop regression, and a decision-tree prediction model based on insights. Designed a geospatial plot to identify patterns and trends of customer transaction coordinates

Data Analyst Intern in Virtual experience program
quantium Nov - 2020

- Actively engaged in quantitative analysis for delivering highly valued data analytics and insights to help the business make strategic decisions. Identified, analyzed, and executed new and potential products, services, markets, and advertising opportunities.

PROJECTS

Movie Recommendation System, Data scientist
Duration: 20 days
Technologies used: Python, Pytorch, Docker, Flask, Deep Learning, Web Scraping, Collaborative filter, API, HTML, CSS, Azure app service

- Conceptualized and developed movie recommendation system like Netflix using Pytorch sequential neural networks and collaborative filtering techniques
- Incorporated web scraping using tmdb API to collect movie/crew details and movie trailer.
- Containerized using Docker with Anaconda3 base image. and deployed with Azure app service.
  Link: movieholic.azurewebsites.net

Disease Diagnosing System, Data scientist
Duration: 30 days
Technologies used: Python, Flask, Deep Learning, Machine Learning, Natural Language Processing, API, HTML, CSS, JS

- Conceptualized Disease Diagnosing systems like Chatbot using Machine learning and Natural language processing.
- Incorporated flask micro-framework and developed web application.
  Link: github.com/MrR0b0t-23/DDS-Webapp

Legal Document Recommender System, Data Engineer
Duration: 60 days
Technologies used: Python, Machine Learning, TensorFlow, Web scraping (BS4)

- creating and preprocessing Data of legal documents. Extracted features from the document, such as date, participants, etc. using data wrangling.
- Designed a recommender for Legal Documents which uses a Content-Based Filtering Approach and Cosine Similarity to rank the recommendations.

Python open-source package (MovieRecEngine), Data scientist
Duration: 5 days
Technologies used: Python, Pytorch, Deep Learning, Web Scraping, Collaborative filter, API

- Developed movie recommendation engine using Pytorch sequential neural networks and collaborative filters
- Published package using twine into python package index.
  Link: pypi.org/project/MovieRecEngine

ACADEMIC BACKGROUND

Vellore Insitute of Technology, Chennai

Bachelor of Technology in Electronics and computer Engineering, 2019 - 2023