

NATARAJAN (CHANDRA) CHANDRAKUMAR

DATA ANALYTICS AND ENGINEERING

Experience

Metis

Data Scientist

Remote

Sept. 2020 to Dec. 2020

- Completed 12-week, full-time data science bootcamp.
- Curriculum included machine learning algorithms, software development, statistics, data analysis, data visualization, data engineering and communication.
- Designed and built end-to-end data science projects using a wide range of techniques and algorithms.
- See "Projects" section below for full details.

Wells Fargo

Digital Channel Consultant

San Francisco, CA

2015 to 2020

- Delivered Chat solutions based on third-party products (Nuance and eGain) on the DigitalEngagement Platform across multiple LOBs as part of the multi-channel experiences to online and mobile customers.
- Worked with Digital Channels group, software vendors, engineering groups and business stakeholders across six business lines including: Auto Loan, Home Lending, Credit Card, Business Deposit, Wells Fargo Customer Care and Technology Operations Group.

eGain

Senior Delivery Manager

Sunnyvale, CA

2012 to 2014

- Planned and executed projects to deliver multichannel Customer Service and Sales CRM product solutions by enabling mail, chat and KCS-centric knowledge management capabilities for Fortune 100 clients that include IBM, GM, State Farm, Humana, and Catamaran.

Insurance Auto Auctions

Director of Applications Development

Westchester, IL

- Managed a portfolio of large-scale enterprise applications that included ERP, e-business, business intelligence (BI), auction, accounting, and sales portal systems.
- Responsible for all aspects of technology including high-level architectural designing, construction, reconstruction and refactoring, technology standardization and modernization of applications.
- Created architectural roadmap to extend the capabilities of enterprise solutions to fit and align with global expansion.

Projects

Crime Trend Prediction for Chicago (Time Series Forecasting)

- Prepared a thorough EDA on the data sourced for the years 2001-2019.
- Executed models built using SARIMA and LSTM(RNN) and compared the results.
- Built visual interactive display of crime data using Folium as part of the daily crime data intake process for internal department portals.

Topic Model Analysis on State of the Union Addresses by US Presidents (NLP)

- Performed topic modeling with both LDA (NLTK, genism) and NMF (sklearn, Spacy, genism) decomposition.
- Aggregated similar themes and identified five strong topics that reflected closely with the social, political, and economic conditions for the certain time epochs.

Crime Card Fraud Detection (Classification)

- Implemented unsupervised models to predict the fraud accuracy (on 2013 European Credit Card Fraud data) and visual displays using Bokeh/Plotly.
- Applied resampling techniques to handle the class imbalance, and used gradient boosting to reduce validation error.
- Extended the scope for Anomaly Detection and tested various techniques and compared the results.

House Price Predictor (Regression)

- Used BeautifulSoup and Selenium to scrape data from Zillow on houses for sale in different suburbs of Chicago.
- Built linear regression model utilizing regularization techniques that maximized the coefficient of determination and minimized root mean squared error to predict house prices.

Contact

✉ nchandrakumar29@gmail.com

☎ 847-525-6375

📍 Buffalo Grove, IL 60089

in natarajanchandrakumar

🌐 nchandrakumar/

Skills

PROGRAMMING

Python

Java

SQL

DATABASES

Postgres

MySQL

MS-Server

DATA TOOLS

NumPy

Pandas

Spark

VISUALIZATION

Matplotlib

Seaborn

Streamlit

Tableau

Bokeh

LIBRARIES

BeautifulSoup

Flask

Selenium

MACHINE LEARNING

Clustering

Decision Trees

K-Nearest Neighbors

Linear/Logistic Regression

Naive Bayes

Natural Language Processing

Neural Networks

Random Forest

Support Vector Machines

Education

Northern Illinois University

M.S. Electrical Engineering

University of Madras

B.E. Electrical Engineering