ANKIT CHAUDHARY

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EDUCATION

University of Illinois at Chicago (UIC), *Chicago, IL* May 2020
Master of Science in Electrical and Computer Engineering *3.61 GPA*

Visvesvaraya Technological University (VTU), *Bengaluru, India* Jun 2016
Bachelor of Engineering (BE) in Electrical and Electronics Engineering *3.61 GPA*

SKILLS

- **Languages:** Python, SQL, C, C++, HTML/CSS, Unix Shell scripting, MATLAB.
- **Python Libraries:** Scikit-learn, NumPy, SciPy, Matplotlib, Pandas, TensorFlow, Folium.
- **Data Engineering & BI Tools**: Informatica Power Centre, Talend, SAP Data Services, Tableau, QlikView.
- **Certifications**: IBM Data Science Professional Certificate, Deeplearning.ai, AWS ML by example.
- **Methodologies:** Scrum, Agile, Waterfall.
- **Core Skills:** Machine Learning, Neural Networks, Pattern Recognition, Image Analysis and Computer Vision, Software Development, Mechatronics System Design.

WORK EXPERIENCE

University of Illinois at Chicago-College of Medicine, *Chicago, IL* Feb 2019-Present
Application Developer - Full Stack (Graduate Assistant)

- Designed and developed a data centric trainee tracking application using Oracle APEX, Oracle Data Modeler and SQL.
- Created data dashboard using Oracle Apex and SQL to display demographic information and key performance indicators for effective strategy planning and resource allocation.
- Create an application to predict admitted applicant's admission decision using Machine Learning.
- Construct and maintain webpages using WordPress and HTML/CSS.

Accenture, *Bengaluru, India* Sep 2016-Jun 2018
Application Development Analyst

- Designed and developed data integration ETL pipelines using Visio, SAP Data Services and Unix shell scripting for Teradata Database for price promotion enhancements.
- Documented ETL code artifacts, batch executions and process flows.
- Unit tested code using Teradata SQL and Unix shell scripting ensuring nil defects.
- Trained to leverage Data Engineering and Visualization tools like Informatica, QlikView, Talend, Tableau, basic concepts of Big Data-Hadoop and Data Warehousing.

PROJECTS

Book Recommendation System May 2020 – July 2020

- Constructed user based and item-based Book Recommendation System on book crossing dataset using collaborative filtering.

Epileptic Seizure Detection from Infrared Sensor Data, UIC Jan 2020-Apr 2020

- Built Machine Learning model on features extracted from PIR sensor data to detect epileptic seizures in humans during sleep.
- Used KNN, Logistic Regression, Gaussian Naïve Bayes and SVM with accuracy of 96% prediction using SVM and KNN.

House Prices Prediction Nov 2019-Jan 2020

- Developed a regression model to predict house prices in the Washington DC residential area using Gradient Boosting regressor model after preprocessing and extracting important features.

Credit Card Fraud Detection Application Jun 2019-Sep 2019

- Created credit card fraud detection application using Isolation Forest Machine algorithm on an unbalanced data set with 0.83 F1-score. Deployed the model using Flask API.

Semantic Segmentation as Image Representation for Scene Recognition, UIC Jan 2019-Apr 2019

- Created a semantic segmentation network in Python using Convolutional Neural Networks to recognize elements of a picture.
- Used MSRC dataset for semantic segmentation of images with 80-20% train and test split and obtained 87% accuracy.

Sentiment Analysis of Twitter Data Using Supervised Learning, UIC Jan 2019-Apr 2019

- Preprocessed data by lemmatization, tokenization, stemming and POS tagging.
- Used Machine Learning models like Naïve Bayes, Support Vector Machines, Maximum Entropy, Logistic Regression and LSTM networks for classification in Python using Scikit and NumPy. Obtained 99% accuracy using SVM.

Autonomous line follower vehicle, UIC Jan 2019-Apr 2019

- Developed an autonomous line follower vehicle by programming Freedom KL25z microcontroller using Embedded C.
- Designed circuit board using Altium designer for motion sensing, motor actuation and control.