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*
Alternative representative, Graduate Student Council, UIC — *Aug 2018 – Aug 2019*
Visvesvaraya Technological University (VTU), *Bengaluru, India* — Jun 2016
Bachelor of Engineering (BE) in Electrical and Electronics Engineering — *3.61 GPA*

SKILLS

- **Languages:** C, C++, JAVA, HTML\CSS, JavaScript, Unix Shell scripting, SQL, Python.
- **Python Libraries:** Scikit-learn, NumPy, SciPy, Matplotlib, Pandas, Tensorflow, Keras, Folium.
- **Simulation:** MATLAB, LabView, AutoCAD, Altium Designer.
- **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:** SDLC, Scrum, Agile.
- **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-May 2020
Graduate Assistant (Application Developer)

- Implemented a data centric trainee tracking application's plan and design by gathering various business requirements.
- Designed the data model using Oracle Data Modeler, developed and deployed its web application using Oracle SQL, PL/SQL and Oracle APEX.
- Constructed and maintained websites 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.
- Unit tested the using Teradata SQL and Unix shell scripting for data validation.
- Trained in various Data Integration and Visualization tools like Informatica, QlikView, Talend, Tableau, basic concepts of Big Data (Hadoop) and Data Warehousing.

PROJECTS

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 100% prediction using SVM and KNN.

Ship Detection Using Artificial Neural Networks — Mar 2020-May 2020

- Designed an Artificial Neural Network based model to detect ships from satellite images using Python.
- Used Airbus Satellite dataset images to develop the model for comprehensive maritime monitoring.

Credit Card Fraud Detection Application — Jun 2019-Sep 2019

- Created credit card fraud detection model using Isolation Forest Machine algorithm on an unbalanced data set with 99% accuracy. 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.