

Pratik Patel

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EDUCATION

- The University of North Carolina at Charlotte, Charlotte, NC

Master of Science in Computer Science

Current GPA: 4.0

Courses: Data Structures and Algorithms, Knowledge Discovery in Database, Network Based Application Development

Expected May 2023
- Gujarat Technological University, Ahmedabad, Gujarat

Bachelor of Engineering in Computer Engineering

GPA: 8.11/10

Courses: Data Structure, Analysis and Design of Algorithms, Vector Calculus and Linear Algebra, Numerical and Statistical Methods for Computer Engineering, Database Management System, Data Mining and Business Intelligence, Software Engineering, Operating System, Web Technology, Artificial Intelligence

June 2018

PROGRAMMING SKILLS

- Languages: Python, C++, R, JavaScript, SQL
- Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, OpenCV, TensorFlow, Keras, PyTorch, NLTK, BeautifulSoup, SciPy, Django, Flask, Express framework
- Tools and Technologies: MSSQL, SSIS, SSRS, Tableau, PowerBI, Jupyter, MySQL, MongoDB, Excel, RStudio, Spyder, Visual Studio Code, Node.js

EXPERIENCE

- The University of North Carolina at Charlotte

Teaching Assistant

My responsibility includes assisting the instructor in designing the course, preparing the required materials, grading the assignments, holding office hours to work with students about the problems they are facing while understanding the course material.

Charlotte, NC
Jan 2022 – Current
- Research Assistant

Worked on developing privacy-protecting tools for data analytics applications
Conducted result analysis, developed visualization and wrote research manuscripts.

Dec 2021 – Jan 2022
- DNG Inc.

Associate Software Engineer

Built a resume parser that can extract key components like career objective, personal information, education, experience, skills from a resume.
Developed salary prediction model using different parameters like job position, company type, job location, industry type, job function, relevant work experience, etc.

Ahmedabad, Gujarat
Feb 2021 – June 2021
- Technosouls

BI/ETL Developer

Implemented the ETL process using SSIS to migrate data from external sources to CRM database.

Ahmedabad, Gujarat
Oct 2020 – Dec 2020
- CU Rise Analytics

Technology Analyst

Developed the ETL framework for storing credit unions data using SSIS and visualized it with various visualization tools like Power BI, Tableau and SSRS.
Collaborated with the Implementation team and the Production Support team to implement the ETL framework on the client environment and rectify the problems and failures which emerged after implementing the framework.
Created an efficient time series forecasting algorithm with the help of Python and R.

Ahmedabad, Gujarat
Oct 2018 – May 2020

PROJECTS

- Code-terations (HTML, CSS, JavaScript, MongoDB, Express, Node.js)

Code-terations is a web-based platform for students and working professionals to learn how to code. The purpose of this platform is to provide different kinds of workshops and tutorials to learn from. Also, there are various coding challenges which can help to improve skills for competitive coding.

In-progress
- Image classification on fashion data (Python, TensorFlow, Keras, ANN, Matplotlib, Jupyter)

Created Artificial Neural Network using ‘relu’ as an activation function for the input layer and ‘softmax’ as an activation function in the output layer. After performing over 30 epochs, the ANN gives 92% of training accuracy and almost 90% of testing accuracy.

July 2020
- Breast Cancer Classification (Python, NumPy, Scikit-Learn, pandas, KNN, SVM)

The main goal of this project is to create a machine learning model to classify from the available features that the breast cancer is benign or malignant. The machine learning model is created using two different machine learning algorithms namely KNN and Support Vector Machine. The model has been trained on various attributes like clump thickness, Uniformity of cell size, Uniformity of cell shape, Mitoses etc. The accuracy of the model was around 94%.

June 2018

PUBLICATION

- A Paper published in International Journal for Scientific Research & Development titled with ‘A Survey Paper On 3D Face Recognition Methods’ | Vol. 5, Issue 11, Jan 2018 | ISSN (online): 2321-0613.