

MANISH C. PATIL

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EDUCATION

California State University, Dominguez Hills

M.S. Computer Science (GPA: 3.5)

Carson, CA

December 2023

- **Relevant Courses:** Advanced Big Data & Cloud Computing, Finite Automata, Advanced AI, Object Oriented Design Analysis, Project Management, Advanced Data Structures and Algorithms, Software Engineering Processes, Software Design Architecture.

University of Mumbai

B.S. Instrumentation Engineering

Maharashtra, IN

October 2020

PROFESSIONAL EXPERIENCE

CSF³ Fab Lab - CSUDH

IT Support Specialist

Carson, CA

October 2022 – Present

- Collaborated with 300+ underrepresented students, leading fabrication technology projects to promote **STEM** education.
- Working on website with **WordPress** including program updates, and forms, integrating essential plugins for functionality.
- Completed three **Jamf iOS** Certifications, showcasing proficiency in configuring, securing, and managing Apple devices in enterprise environments using Jamf Pro.
- Facilitated **Swift** programming sessions as an Apple Teacher, fostering interactive learning and addressing coding challenges.

CaspianLogic Inc.

Software Developer Intern

Cupertino, CA

May 2022 – October 2022

- Developed full-stack web applications using the **MERN** stack for CaspianLogic, a web development consulting firm.
- Acquired proficiency in front-end technologies: **React**, **Redux**, and back-end technologies: **Express**, **Node.js**, **MongoDB**.
- Implemented **RESTful** services and conducted testing procedures to ensure the quality of production-grade web applications.

Yali Inc.

Data Analyst Intern

Mumbai, India

September 2020 – March 2021

- Constructed a financial knowledge corpus using Python, leveraging **BeautifulSoup** and **Selenium** for precise data extraction.
- Contributed **25,000 NLP** annotations via **Doccano**, enhancing the quality of financial data for analysis and modeling.
- Implemented data cleaning techniques, maintained automated pipelines, and optimized NLP models, resulting in significant improvements in data accuracy and processing efficiency.

PROJECTS

Azure Olympic Data Engineering Pipeline - [Link](#)

February 2024

- Developed end-to-end data pipelines utilizing **Azure Data Factory**, **Databricks**, and **Data Lake Storage**, employing **ETL** principles for efficient data processing.
- Configured **Data Factory** for data ingestion from sources like **APIs** and GitHub repositories, enhancing data integration.
- Built a data engineering project integrating various Azure services, facilitating large-scale dataset processing and analysis.

Cryptolens- Automated Crypto Analysis - [Link](#)

December 2023

- Developed Python script for real-time crypto data retrieval, utilizing JSON normalization and pandas for efficient storage.
- Incorporated **ETL** principles for seamless extraction, **transformation**, and loading of real-time crypto data, demonstrating expertise in Python, pandas, requests, and time for **data handling** and automation.
- Employed **Seaborn** and **Matplotlib** for captivating data visualization, implementing streamlined data export to CSV and JSON for efficient file management and data integrity maintenance.

Uber Data Engineering Pipeline and Dashboard - [Link](#)

December 2023

- Developed a Data Engineering Pipeline for Uber trip data using **Python**, **Big Query**, and **Google Cloud Platform**.
- Demonstrated proficiency in **Data Modeling** concepts, employing fact-dimension tables to enhance data analysis capabilities.
- Configured **Mage** on **Google Compute Engine** for automated execution of transformation code, and utilized **Google Data Studio** for interactive dashboard creation, facilitating data exploration and analysis.

3D Geometric Shape Classification using CNN with PyTorch - [Link](#)

June 2023

- Developed a CNN model using **PyTorch** to classify 3D geometric shapes, achieving a validation accuracy of 99.77%.
- Utilized preprocessing techniques, including image transformation and dataset splitting, to prepare for training and validation.
- Demonstrated proficiency in **Deep Learning** concepts, including model building, training, evaluation, and model saving/loading, showcasing expertise in Python, PyTorch, and data manipulation.

SKILLS & INTERESTS

Programming Languages: Python and Libraries(Pandas, SciPy, Matplotlib, Seaborn), Java, SQL, JavaScript, React, Node.

Technical Skills: Git, Mage, Airflow, Kafka, Relational Database, Data Mining, Big Data Analytics, Pattern-Trend Identification, Business Intelligence, Understanding of API's, Django, Power BI, Tableau, Microsoft Excel (VLookup, Pivot tables, Conditional Formatting), Jupyter Notebook, PySpark, Microsoft Azure (DataBricks, Azure Data Lake, Azure Data Warehouse), Looker Studio, Big Query, Google Cloud Platform(GCP).

Certifications ([link](#)): Career Essentials in Generative AI Specialization by Microsoft and LinkedIn, Introduction to SQL, Python for Everybody, Data Analyst Bootcamp, Cisco Data Analytics Essentials.