AKSHAY PATIL

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EDUCATION

California State University: Masters in Computer Science — May 2024

Atria Institute of Technology, India: Bachelor of Engineering in Information Science and Technology — June 2019

TECHNICAL SKILLS

Languages & Technologies

Python, Java

Web Development and Framework

HTML, CSS, Bootstrap, REST APIs, Flask, Django

DevOps & Tools

Git, GitHub

Big Data and Data Engineering

Databricks, PySpark, Tableau

Cloud & Databases

SQL, MySQL, AWS, GCP

Machine Learning

TensorFlow, scikit-learn, OpenCV, Pytesseract, Keras, PyTorch

Areas Of Functional Expertise

Software Development Lifecycle (SDLC), Database Management, Troubleshooting, Data Analysis and Model Development, Testing, Teamwork and Cross-functional Communication

WORK EXPERIENCE

Technical Analyst – CogniSure, India — February 2020 – December 2022

- Analysed large amounts of unstructured insurance data and designed ETL pipelines, transforming data to structured JSON and storing metadata in MS SQL database for analysis and report generation
- Reduced manual effort by 50% by creating Python script to validate Excel data against SQL database and generate SQL scripts for missing entries
- Developed an OCR system using Python, OpenCV, and Pytesseract, improving text extraction accuracy by 20%
- Implemented Agile methodology to manage and deliver tasks, ensuring iterative development, regular feedback, and continuous improvement
- Collaborated closely with cross-functional teams, including business domain experts and testing teams, to understand client requirements and deliver customized data solutions

Intern - Nitesh Estates Pvt Ltd, Bangalore, India — July 2018 – August 2018

- Engineered an intuitive 'Document Management System' with a user-friendly GUI using Python's PyQT library
- Application employs Amazon Web Services' Simple Storage Service for back-end to store user data

PROJECTS

Yelp Business Data Analysis — [Databricks, Python, PySpark, Spark SQL, Spark NLP]

- Conducted comprehensive business data analysis to derive insights and visualize trends
- Implemented topic modelling and UDFs for complex data transformations, generating custom reports

Disneyland Ratings Analysis — [Python, Pandas, NLTK, Tableau]

- Analysed 42,000 reviews from Disneyland branches, performing sentiment analysis and visualizing trends
- Designed interactive dashboard using Tableau to present key findings

Resume Optimization System — [Django, Python, NLTK, PyTorch, BERT, HTML, JavaScript, AWS SageMaker]

- Developed a system to enhance resume alignment with job descriptions using advanced text processing and machine learning techniques
- Achieved 70% accuracy in suggesting relevant keywords and skills through fine-tuning a BERT model

CNN for Handwritten Letter Recognition — [EMNIST Dataset, Python, TensorFlow, Keras]

- Constructed and compared performance of CNN and Dense Feed-Forward Network for classifying handwritten letters
- Achieved 91.3% accuracy with the CNN and 90.3% accuracy with the dense network

DCGAN for Handwritten Letter Generation — [EMNIST Dataset, Python, TensorFlow, Keras]

- Built a DCGAN, with the generator creating new letter images and the discriminator refining their realism
- Employed an adversarial approach where the generator and discriminator networks competed to improve image quality

CERTIFICATES & COURSES

- SQL (Intermediate) Certificate from HackerRank
- Tableau for Data Scientists from LinkedIn Learning
- Data Analysis with Python
- Derive Insights from BigQuery Data Skill Badge (Google Cloud)