

Suhail Parakkal *Senior Software Engineer*

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📁 PROFESSIONAL EXPERIENCE

Senior Software Engineer

Capgemini ☑

05-2021 – present | Bangalore, India

- Developed, managed and analysed reports using Python and SQL, performed CRUD operations, Salesforce Administration using Salesforce platform and Dataloader.
- Automated MS Excel tasks using Python, Pandas and openpyxl, reducing task completion time by over 90%.
- Visualized and communicated insights from event reports, enabling stakeholders and decision-makers to make data-driven decisions.
- Formulated market entry research and competitor analysis by considering various datasets, such as search engine performance, sales numbers, market presence, online presence, social media, and eCommerce.
- Automated eCommerce product research using Python and Selenium to gather product data, analyzing search volume and interest for a specific category and keyword.

🎓 EDUCATION

Manipal Academy of Higher Education ☑

B.Tech Aeronautical Engineering (CGPA: 6.72)

08-2016 – 07-2020 | Manipal, India

🧠 SKILLS

Programming Languages (Python, Java, C)

Data Engineering (MySQL, Snowflake, Pandas, Numpy, Matplotlib, Tableau, Data Visualisation, Statistics, Git, Docker)

Machine Learning (Natural Language Processing, Computer Vision, CNN, Scikit-learn, Fastai, PyTorch, Tensorflow, Transfer Learning, Hugging face)

Web development (Flask, HTML, CSS, Django, Gradio)

Salesforce (Dataloader, SOQL, Reports, Apex)

📖 COURSES

Machine Learning

Stanford Online (Coursera)

Python & DevOps Automation Certification

GI&A Academy, Capgemini University

German - A2

Deutsche Welle

Data Engineering Zoomcamp ☑

Datataalks.club

📁 PROJECTS

Recommendation System ☑

Similar Product Finder using Computer Vision and NLP

- Developed a Python-based Flask web application, Similar Product Finder, for recommending similar products based on user preferences.
- Leveraged Natural Language Processing (NLP) techniques and a pre-trained VGG16 Convolutional Neural Network (CNN) model for feature extraction from product titles, tags, and images.
- Utilized K-means clustering to group similar products efficiently and improve recommendation accuracy.
- Integrated Celery and Redis to handle asynchronous task processing and ensure smooth performance.
- Considered product IDs, titles, tags, prices, and images as features for comparing and identifying similar products.
- Programming Language: Python
- Machine Learning Models: VGG16, Word2Vec
- Algorithms and Techniques: NLP, CNN, K-Means Clustering, Cosine Similarity
- Libraries and tools: Pandas, NumPy, Keras, Scikit-learn, Matplotlib, Gensim, NLTK, Requests, PIL, JSON, Git, GitHub.
- UI: Flask, HTML, CSS

Apple Classification using Deep Learning ☑

- Developed a deep learning model to classify apples as fresh or rotten using images of the fruit.
- Used transfer learning to fine-tune a pre-trained convolutional neural network (ResNet18) on a dataset of Apple images after preprocessing.
- Implemented the model using Python and Fastai, achieving an accuracy of 97.5%.
- Created a simple Gradio web application allowing users to upload images of apples and get a prediction of their freshness status.
- Programming Language: Python
- Machine Learning Models: ResNet-18
- Algorithms and Techniques: CNN
- Libraries and tools: Fastai, Hugging Face Transformers, Hugging Face Spaces, Pandas, NumPy
- Model Deployment: Hugging Face Model Hosting
- UI: Gradio

🌐 LANGUAGES

English • German (A2) • Arabic • Hindi

🔑 INTERESTS

Manchester United, Formula 1, Mountains, Motorbike