

SUPARNA SRINIVASAN

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SUMMARY: Machine Learning Engineer with 3 years of experience specializing in Natural Language Processing (NLP) and Cloud Solutions, developing solutions across diverse domains. With a strong foundation in Software Development I possess a unique blend of technical acumen and creativity, allowing me to work on projects that merge user-centric design with cutting-edge technologies.

TECHNICAL SKILLS

Programming: Python, Java/J2EE, JavaScript, HTML, CSS, Rest API

Frameworks: Scikit Learn, NodeJS, Elasticsearch/ELK, PyTorch, NLTK, OpenCV, Flask

Databases & Tools: SQL, NoSQL, MongoDB, AWS: EC2, ECS, S3

Technical Abilities: Automation, Unit/Performance Testing, Scripting, CI/CD, SDLC, Agile Methodologies, Data Analytics

EDUCATION

Masters of Science in Computer Science at Northeastern University

Sept 2021 – Dec 2023

BS in Computer Science (Hons) in Artificial Intelligence at Heriot-Watt University (GPA: 4.0)

Sept 2017 – June 2021

WORK EXPERIENCE

Orkay Consulting LLC

Santa Clara, California

Machine Learning Engineer

Feb 2024 – Present

- Led the design and implementation of backend and machine learning models for predictive analytics in client services, enhancing decision-making accuracy

Encore Software Services

Fremont, California

Machine Learning Intern

June 2023 – Sep 2023

- Spearheaded research and development initiatives in **OCR** solutions, conducting comprehensive evaluations of **AWS Textract** and **Google Vision API** to assess accuracy and cost-efficiency for data extraction and analysis
- Engineered and optimized precise **NodeJS** and **Python** programs for text extraction and data segmentation, resulting in a 40% increase in data extraction accuracy and a 25% improvement in system performance

Wantik Technologies

Dubai, UAE

Machine Learning Intern

Apr 2022 – Sep 2022

- Engineered and deployed AI-driven chatbot for a Real Estate Agency tailored to client specifications, enhancing customer service interactions across multiple platforms using **DialogFlow** and **Google Vertex AI**
- Pioneered the utilization of **NLP** techniques to interpret and automate responses, cutting query handling time by 35%

Oasis Investment Company, Al Shirawi Group

Dubai, UAE

Full Stack Software Developer

May 2020 – May 2021

- Led the mobilization of the company's internal website using Flutter, enabling cross-platform functionality on **Android** and **iOS**; crafted intuitive **UI/UX** workflows and wireframes with **Adobe XD**; drove a **65% increase** in user engagement
- Played a pivotal role in backend integration of secure payment processing, advancing the app's ability to manage advances and claims, while ensuring compliance with financial regulations
- Collaborated and implemented rigorous backend security protocols, fortified financial data security and **reduced security incidents by 60%**
- Managed agile development from design to deployment, smoothly launching a financial app across 45 companies, boosting financially operational efficiency.

Oasis Investment Company, Al Shirawi Group

Dubai, UAE

Software Development Intern

Aug 2019 – Sep 2019

- Developed an intuitive website using Microsoft **ASP.NET MVC**, **C#**, and **JavaScript**, enhanced financial workflows achieving a **70% surge** in supplier interaction and more efficient invoice tracking
- Orchestrated the deployment of invoice management system across **45 companies** within the UAE, significantly improving the accounts payable process and financial data accuracy

PROJECT EXPERIENCE

Personalized News Recommender (Python, GPT-4, Pandas, Numpy, Scikit-learn)

Apr 2024 – Jun 2024

- Implemented data preprocessing and embedding generation for accurate article and user representation
- Created user profiles from historical interaction data to capture preferences
- Combined **content-based** and **collaborative filtering**, boosting **MRR by 15%**, **AUC by 12%**, and **nDCG by 10%**

Diet Coach LLM (Python, LangChain)

Mar 2023 – May 2023

- Implemented and deployed a conversational AI interface that allows users to interact naturally with the diet coach, ask questions, log meals, and receive instant feedback on the dietary choice.

SpotRec (React, Python, Keras, Spotipy, LightGBM)

Mar 2023 – May 2023

- Engineered a sentiment-driven music recommendation engine with advanced **NLP** and **ML**, delivering personalized, mood-aligned playlists through a user-friendly React interface, significantly enhancing user experience
- Attained a **92.4% sentiment prediction accuracy** with a sophisticated **bidirectional LSTM** model, leveraging Spotipy for precise feature extraction and **LightGBM** for robust music classification

ElectroSearch (Python, React, Flask, Elasticsearch)

Nov 2022 – Dec 2022

- Created a powerful search engine by integrating and optimizing multiple electronics datasets, driving a **40% improvement** in query processing, data retrievability, and overall user experience
- Engineered advanced features including fuzzy search, data sorting, and optimized responsiveness, **reducing search time by 50%**