Manjunath Hiremath

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Summary

Highly accomplished Data Scientist with 6+ years of experience in developing and deploying data science, Generative AI, and analytical solutions to solve complex business problems. Proven ability to deliver successful projects in resume parsing, natural language processing, object detection, and text summarization. Evolved my career from Android Development to Data Science, showcasing a strong foundation in technical skills and leadership. Expertise in machine learning, deep learning, data visualization, and team management.

Work Experience

Lead Data Scientist | MSH INDIA, Bangalore, Karnataka | July 2021 – Present

* Developed a resume parsing system resulting in a 90% reduction in manual processing time, achieving 95% accuracy in named entity extraction.
* Created a skill and job titles anthology, improving candidate search accuracy by 20% resulting in a more targeted search for job candidates.
* Fine-tuned a Sentence-BERT (SBERT) model to improve semantic similarity between skills and job titles by 15%.
* Implemented an Advanced Semantic Search feature in the Applicant Tracking System (ATS), improving search result quality by 60%.
* Designed and built a KPI Dashboard, increasing user engagement and satisfaction by 50%.
* Implemented Gen AI Paradigms such as prompt engineering and Retrieval-Augmented Generation (RAG).
* Hands-on experience with Generative AI technologies: Open AI/Gemini Models, Llama Models.
* Proficient in Embeddings, Vector Databases, and frameworks like LangChain and LangSmith.
* Implemented CI/CD pipelines automating model training and deployment. Experience with Model Monitoring, Automated Testing, Model Versioning, Scalability, and Containerization.
* Established automated model retraining at regular intervals or upon new data availability.
* **Technologies:** MLFlow, DVC, DagsHub, AWS, Docker, GitHub Actions

Data Scientist | EXIMIUS DESIGN, Bangalore, Karnataka | December 2018 – July 2021

* **HR Chatbot:** Developed and deployed a highly efficient HR chatbot addressing employee queries on FAQs, leave applications, and tax information. This resulted in a 30% reduction in HR support tickets.
    * Implemented data preparation, intent classification, and entity extraction using custom NER.
    * Maintained comprehensive documentation of conversational flows, intents, and platform configurations.
    * **Technologies:** Machine Learning, Python, Deep Learning, Word2Vec, USE, Flask
* **Close Domain Question Answering:** Created an information retrieval and question-answering tool integrated with sales documents using NLP and deep learning.
    * Developed a system for categorizing questions using embeddings and document-level embeddings for effective database organization.
    * Achieved top 5 at 75% score on the SQuAD dataset for answer paragraph prediction using a fine-tuned BERT model.
    * **Technologies:** Machine Learning, Python, Deep Learning, Word2Vec, USE, BERT

Business Analyst | Tredence Analytics, Bangalore, Karnataka | December 2017 – June 2018

* **Price Optimization:** Developed an optimal price range for a product customized to individual customers.
    * Utilized k-means clustering for customer segmentation.
    * Conducted univariate and bivariate EDA with hypothesis testing.
    * Trained a custom Word2Vec model for product domain-specific word embeddings.
    * Performed sentiment analysis on user comments.
    * **Libraries:** Pandas, Scikit-learn, Matplotlib, NLTK, SpaCy
* **Demand Planning and Business Forecasting:** Analyzed BASF's sales performance, providing actionable insights to optimize sales strategies and identify growth opportunities. Improved forecasting accuracy by 10%.
    * Performed data exploration and preprocessing.

* Identified top-performing products, regions, and customer segments.
  * Created visualizations using Tableau, Matplotlib, and Seaborn.

Machine Learning Intern | Applied AI, Hyderabad, Telangana | June 2017 – December 2017

* Developed a machine learning model for human activity recognition using sensor data (SVM, Random Forest).
* Created an apparel recommendation system using NLP and computer vision techniques (collaborative and content-based filtering).

Android Developer | TERRABLUE XT, Bangalore, Karnataka | January 2017 – May 2017

* Developed an Android application utilizing Bluetooth Low Energy (BLE) technology for communication with BLE devices.
* Designed and implemented the user interface using XML layouts and Android UI components.
* Integrated the Android Bluetooth API for device scanning and connection establishment.
* **Libraries:** Android SDK, Firebase Authentication, BLE

Education

* **Bachelor of Engineering, EEE | KLS VDRIT, Haliyal, Karnataka | 2015** *(GPA: [Insert GPA if applicable] or Relevant Coursework: [List relevant coursework]) *
* **Class 12th, PCMB | PC JABIN, Hubli, Karnataka | 2011**

Skills

Python, Java, Golang, PyTorch, Keras, Jira, GIT, Flask, AWS, MongoDB, FAISS, ChromaDB, Pinecone, Beautiful Soup, Selenium, OpenCV, ChatGPT, Pandas, NumPy, Scikit-learn, BERT, FastText, SBERT, Gemini, OpenAI, Machine Learning, Deep Learning, Natural Language Processing, Data Visualization, Resume Parsing, Object Detection, Text Summarization, Android Development, BLE

(Add Projects, Certifications, Languages, Interests, etc. sections as appropriate)