Ravikumar Dobbali

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Summary

Aspiring Data Scientist with a solid foundation in statistical analysis, machine learning, and data-driven strategies. Experienced in extracting, processing, and analyzing large datasets to derive valuable business insights. Proficient in Python, Scikit-Learn, and TensorFlow. Eager to contribute to innovative data science projects.

Enthusiastic Machine Learning Engineer with expertise in developing and deploying machine learning models. Skilled in Python, Scikit-Learn, TensorFlow, and Keras. Proven ability to implement various algorithms, including regression, classification, and clustering. Excited to apply machine learning solutions to real-world challenges.

Passionate AI Engineer with hands-on experience in computer vision, NLP, and deep learning. Proficient in Python, TensorFlow, Keras, and neural network architectures. Accomplished projects in AI-assisted desktop control, object detection, and text summarization. Eager to contribute to cutting-edge AI technologies.

Dedicated Java Developer with expertise in Java, Swing, and AWT. Experienced in developing desktop applications, including an ATM simulation system. Proficient in backend development with MySQL. Detail-oriented and committed to writing clean, efficient code. Excited about opportunities in Java development.

Detail-oriented Database Management Specialist with hands-on experience in Oracle and MySQL. Skilled in designing, implementing, and maintaining databases. Proficient in SQL and database connectivity. Eager to contribute to efficient and secure database management solutions.

Dynamic Web Developer with expertise in HTML5, CSS, JavaScript, and web frameworks like Flask and Django. Experienced in creating interactive web applications, including a house rent prediction page. Proficient in front-end and back-end development. Ready to contribute to innovative web projects.

Experience

- **Data Analyst Intern — KPMG:**

  - Performed statistical analysis to identify performance patterns and devised data-driven strategies to optimize the same. Extracted, processed, and analyzed large data to solve analytical issues.
  - Delivered a monitoring dashboard to track business performance.
  - Responsible for performing data-driven analytics for generating business insights.

Projects

- **Future Projects:**

  - **BudduAI - AI Assistant:**
    * Implemented an AI assistant with capabilities such as desktop control, object detection, text summarization, image generation, and more.
    * Integrated features like controlling desktop apps, summarizing books, generating images, and recognizing entities using NLP.
    * Employed computer vision and NLP techniques for various functionalities.
    * GitHub Link
  - **AI Virtual Painter:**

* Developed a project enabling drawing and writing using computer vision.
* Implemented features for drawing, writing, and other functionalities using AI techniques.
* GitHub Link

- **Bank Management Project (Java Swing, AWT, MySQL):**
  * Simulated an ATM system with Java Swing and AWT for the GUI.
  * Implemented backend functionality using MySQL for data storage.
  * GitHub Link

- **Past Projects:**

  - **Movie Recommendation System:**
    * A project focused on creating a system that suggests movies to users based on their preferences, viewing history, or similar user behaviors. Recommendation systems often employ techniques such as collaborative filtering or content-based filtering.
    * GitHub Link

  - **Text Summarization:**
    * Developed a Text Summarization system using NLP techniques and Python. The project focuses on automatically generating concise and coherent summaries from longer texts.
    * Leveraged the NLTK library for sentence tokenization, stop-word removal, and cosine distance computation.
    * Implemented the PageRank algorithm with NetworkX to rank sentences, resulting in an efficient and accurate text summarization solution.
    * GitHub Link

  - **Next Word Prediction:**
    * Engineered a Next Word Prediction system using NLP techniques and deep learning models like LSTM and GRU.
    * Implemented a robust solution using tokenization, Tokenizer, and Ngrams to predict the next word in a sequence.
    * The project showcases proficiency in NLP, sequence modeling, and advanced neural network architectures.
    * GitHub Link

  - **Hyderabad House Rent Prediction:**
    * Developed a web page for predicting house rents in Hyderabad using machine learning techniques such as Linear Regression, Ridge Regression, Lasso Regression, Support Vector Regression (SVR), and Decision Tree Regression.
    * GitHub Link

Skills

Technical Skills

- **Programming and Web Development:**

  - C (8/10), Java (9/10), Python (9/10)
  - HTML5, CSS, JavaScript (8/10), PHP, JSP, Servlets
  - Flask, Django

- **Data Science and Machine Learning:**

  - Pandas, NumPy (9/10), Matplotlib, Seaborn
  - Scikit-Learn, TensorFlow, Keras (8/10)
  - Neural Networks (ANN), CNN, RNN, LSTM (8/10)
  - MySQL, Oracle
  - Git, GitHub

- Microsoft Power BI, Excel (8/10), Jupyter Notebooks

- **Other Technical Skills:**

  - Machine Learning Algorithms: LR, MR, Poly Regression, Ridge, Lasso, XGBoost, DTR, RFR, SVR, SVM, Naive Bayes, DT, RF, KNN, K-Means, K-Medoids, Bayesian Networks, DBSCAN
  - Deep Learning: ANN, CNN, RNN, LSTM, GRU, Encoder-Decoder, Attention, Transfer Learning, Transformers
  - Web Development Tools: HTML, CSS, JavaScript, PHP, JSP, Servlets, XML, Ajax, Database Connectivity
  - Data Mining: Association Rules (Apriori, Eclat, FP-Growth), Clustering (K-Means, K-Medoids, DBSCAN, Agglomerative Clustering, Clique, STING), Classification Rules (Decision Trees, Bayesian Classification, Backpropagation)
  - EDA: Matplotlib, Seaborn, NumPy, Pandas, Java, OOPs, AWT, Swing

Interpersonal/Soft Skills

- Self-learning

- Soft-spoken

- Pressure handling

- Energetic

- Project management

- Time management

Education

- **B.E. in Artificial Intelligence and Machine Learning** [2021 - Present]
  University College Of Engineering, Osmania University

- **Intermediate** [2019 - 2021]
  Sri Gayatri Junior College

- **SSC** [2019]
  ZPHS Mastipur

Achievements

- Maintained a CGPA of 9.04 throughout academic years.

- Apprentice at Amazon ML Summer School 2023.

- IEEE CS organizer in our college.