SURYA PRAKASH

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SKILLS

Programming Languages

- Python
- SQL
- JavaScript (Basics)
- HTML

AI & Generative AI

- Large Language Models (LLMs)
- Prompt Engineering
- LangChain
- Azure OpenA
- PandasAI
- OpenAI API
- Chatbot Development

Machine Learning & Data Science

- Supervised and Unsupervised Learning
- Regression, Classification
- Clustering
- Model Evaluation
- Data Preprocessing
- Scikit-learn
- NumPy

Data Analysis & Visualization

- Pandas
- Matplotlib
- Seaborn
- SmartDataframe
- Exploratory Data Analysis (EDA)

Tools & Frameworks

- FastAPI
- Streamlit
- KNIME
- Git
- Jupyter Notebook
- VS Code

SUMMARY

Motivated and detail-oriented IT graduate with a relentless drive for excellence and continuous learning. Adept at quickly mastering diverse technologies and contributing meaningfully to complex, high-impact projects. Known for a strong work ethic, adaptability, and a proactive mindset in tackling technical challenges. Passionate about emerging fields like AI and software development, with a focus on delivering innovative solutions that align with evolving industry needs. Ready to thrive in dynamic environments and make a measurable impact from day one.

EXPERIENCE

Data Science & GenAI Developer, Birlasoft Ltd.
Feb 2024 – Present

- **Ask Jillian – Conversational GenAI Chatbot:** Designed and deployed an enterprise-grade chatbot enabling natural language queries with text, tables, and visualizations. Applied prompt engineering, integrated vector databases (RAG) for context-aware answers, optimized with caching, and built scalable APIs for seamless integration—reducing manual analysis time and enhancing decision-making efficiency.

- **Martin Marietta – Part Classification for Purchase Orders:** Built and productionized a machine learning model to classify parts from text descriptions, automating purchase order processing. Implemented text preprocessing (tokenization, TF-IDF) and trained a Random Forest Classifier, achieving higher accuracy and reducing manual procurement effort.

- **Resume Checker POC: Developed an AI**-powered tool where users upload resumes; the system extracts key info and evaluates fit against job requirements, providing instant feedback to recruiters.

- **Code Generator POC: Created a Streamlit**-based app integrated with Azure OpenAI to generate, extract, and auto-execute code from natural language prompts. Designed a self-healing mechanism that iteratively fixes errors and re-runs code, improving reliability and developer productivity.

- Executed end-to-end data workflows (cleaning, EDA, visualization, reporting), collaborated with cross-functional teams, researched emerging AI/ML tools, and contributed to knowledge-sharing sessions and documentation for team scalability.

Tech Stack: Python, Scikit-Learn, Pandas, NumPy, NLP (TF-IDF, Tokenization), Random Forest, RAG, Azure OpenAI, Streamlit, API Development, Jupyter Notebook.

Data base

- MySQL
- SQLite
- CSV-based data storage
- Handling

Tools & Frameworks

- Analytical Thinking
- Quick Learning
- Problem Solving
- Team Collaboration
- Strong Work Ethic
- Adaptability

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Google AI Essentials – Coursera
- Prompt Engineering Basics for AI – Google AI
- Generative AI Fundamentals & How Large Language Models Work-Coursera
- Generative AI for Everyone – DeepLearning.AI
- Basic Proficiency in KNIME Analytics Platform
- Advanced Google Analytics – Google
- Foundations of Data: Data, Data Everywhere – Google
- Generative Pretrained Transformers (GPT) – University of Glasgow
- Introduction to Generative AI – Coursera
- Introduction to Machine Learning: The Art of Possible – AWS
- Introduction to Microsoft Azure Cloud Services – Microsoft
- Build a Netflix Clone Using AI – Cuvette

EDUCATION

BTECH, INFORMATION TECHNOLOGY

Aug 2019 - Jun 2023
SRI VENKATESWARA COLLEGE OF ENGINEERING
CGPA: 8.2

Higher secondary

Jun 2018 - May 2019

RKM MATRICULATION HIGHER SECONDARY SCHOOL

Percentage: 75%

Secondary

Jun 2016 - May 2017

ST.MARYS ANGLO INDIAN HIGHER SECONDARY SCHOOL

Percentage: 86%

LANGUAGES

- English
- Tamil

Data Science Intern | Kanini Software Solutions
Jun 2023 – Dec 2023

- Built end-to-end ML solutions covering data cleaning, feature engineering, and imputation, ensuring high-quality datasets for business use cases.

- **No-Show Appointment Prediction:** Designed a scalable backend integrating Naive Bayes, SVM, Random Forest, and Logistic Regression, enabling hospitals to reduce missed appointments and optimize scheduling.

- **Stock Price Forecasting:** Implemented regression-based predictive models, with Random Forest Regressor + hyperparameter tuning achieving the best forecasting accuracy.

- **Spam Mail Detection:** Developed a classifier using Logistic Regression, TF-IDF, and SMOTE to handle class imbalance, improving email security and inbox management.

- Collaborated with senior data scientists on real-world problems, gaining exposure to industry-standard ML practices and deployment workflows.

Tech Stack: Python, Scikit-learn, Pandas, NumPy, TF-IDF, SMOTE, Random Forest, Logistic Regression, SVM.

Academic Projects

Final year project - BLOCKCHAIN BASED CURRENCY EXCHANGE PLATFORM WITH ENHANCED SECURITY AND TRANSPARENCY.

- Conceptualized, designed, and developed a full-fledged blockchain currency exchange platform with a decentralized wallet feature. Implemented smart contracts and decentralized ledger technology to automate trade settlements, enhancing transaction.

- Developed a user-friendly and highly secure decentralized wallet application, providing users with full control over their cryptocurrency holdings.

- **I collaborated with a team that developed a decentralized blockchain wallet, which is currently being patented.**