

Uenkata Abhinandan Kancharla

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OBJECTIVE

Ambitious and results-oriented Machine Learning Engineer and Data Scientist with expertise in designing innovative AI solutions to drive business growth and operational efficiency. Adept at delivering **90%+ model accuracy** and achieving **20% cost reductions** in key industries, including **logistics, finance, and education**. Passionate about leveraging cutting-edge AI systems, conducting transformative research, and delivering actionable business insights to forward-thinking organizations.

SKILLS

- **AI/ML Expertise** : TensorFlow, PyTorch, Scikit-learn, Predictive Analytics, Matplotlib, NLP
- **Programming & Tools** : Python, Java, SQL, Tableau, Power BI, Flask, Heroku
- **Version Control & Platforms** : GitHub, VS Code, Jupyter Notebook, PyCharm
- **Cloud Platforms & Deployment** : AWS, GCP, Docker, MLOps workflows, Google Colab
- **Soft Skills** : Team Player, Bias For Action, Excellent Communication, Rapport Building

EDUCATION

NRI Institute of Technology (NRIIT)

Bachelors in Artificial Intelligence and Machine Learning | GPA: 8.2/10

Guntur, India

08/ 2023 – 05/ 2027

COURSE WORK: Data Structures and Algorithms | Machine Learning | Artificial Intelligence | Data Mining | Applied Statistical Operations | Linear Algebra | Differential Equations | Probability

WORK EXPERIENCE

Data Scientist | AutonoPros

Hyderabad, India

11/ 2024 – 02/ 2025

- Spearheaded the creation of **predictive models**, attaining **95% accuracy**, and reducing operational costs by **15%**.
- Developed and deployed **scalable machine learning pipelines** leveraging **AWS** and **Docker**, enhancing workflow efficiency by **30%**.
- Engineered advanced AI solutions to optimize **ride demand forecasting**, resulting in a **20% revenue boost**.
- Consolidated and analyzed complex datasets, enabling strategic, data-driven decision-making.

Machine Learning Engineer | Technolabs Softwares

Indore, India

11/ 2024 – 12/2024

- **Orchestrated the end-to-end design and implementation of a cutting-edge logistics optimization platform**, achieving 90% prediction accuracy and reducing operational delays by 25%, revolutionizing supply chain efficiency.
Technologies Used: Python, Scikit-learn, TensorFlow, and Flask.
- **Architected and deployed the solution leveraging Flask**, seamlessly integrating MLOps workflows and containerization to ensure scalability and operational reliability, reducing deployment time by 40%.
Technologies Used: Flask, Docker, Kubernetes, and CI/CD pipelines.
- **Integrated external variables, including weather and traffic data**, to bolster model reliability, driving a 25% boost in prediction accuracy. **Delivered actionable insights through advanced real-time analytics and**

dynamic feature engineering.

Technologies Used: Pandas, NumPy, Matplotlib, and Flask.

Python Developer | OctaNet Services

10/2024 -11/2024

Rajasthan, India

- **Developed and optimized Python-based solutions** to streamline project workflows, resulting in a 30% improvement in task efficiency and timely project delivery.
Technologies Used: Python, Jupyter Notebook, and VS Code.
- **Engineered a robust ATM Interface application** with advanced features such as fund transfers, deposits, withdrawals, and balance inquiries, significantly enhancing user experience and transaction reliability.
Technologies Used: Python, Flask, and SQLite.
- **Implemented modular programming techniques** to design scalable solutions, ensuring maintainability and adaptability for future enhancements. The approach improved code reusability by 40%.
Technologies Used: Python, OOP, and Git for version control.

Java Programmer | CodSoft

08/2024-09/2024

Kolkata, India

- **Architected and optimized Java-based solutions**, including a Random Number Game Generator, ATM Interface with advanced transaction features, and a Student Grade Calculator, ensuring seamless execution across diverse test environments.
Technologies Used: Java, OOP, and JUnit.
- **Spearheaded the development and deployment of scalable Java applications**, enhancing system efficiency and user engagement through innovative design and robust functionality.
Technologies Used: Java, Design Patterns, and IntelliJ IDEA.
- **Integrated advanced algorithms and modular programming principles**, delivering feature-rich applications that streamlined processes, reduced runtime errors, and improved overall project performance.
Technologies Used: Java, Collections Framework, and Debugging Tools.

PROJECTS

❖ **Multimodal Search Engine**

- **Engineered and deployed a highly efficient multimodal search engine**, integrating **text** and **image embeddings** to drive **advanced knowledge retrieval** with **85% accuracy**.
- **Orchestrated data pipelines** for **indexing** and **retrieval**, significantly boosting **document search** across **visual** and **textual modalities**.
- **Enabled precise cross-referencing** between **text** and **images**, providing **comprehensive information retrieval**.
Technologies Used: PyMuPDF, nomic-embed-text-v1.5, Pandas, cosine similarity metrics

❖ **AI-Powered Multilingual Chatbot**

- **Developed and optimized a real-time AI-powered multilingual chatbot**, achieving **95% query resolution accuracy** to streamline **student assistance** for **admissions**, **fees**, and **placements**.
- **Architected scalable backend services** with **Flask** and integrated **NLP techniques** for **seamless interactions** and enhanced **user experience**.

- **Integrated real-time API-driven insights** and robust **natural language understanding (NLU)** to support **intent recognition** and improve **student engagement**.

Technologies Used: Flask, React.js, spaCy, scikit-learn, Web Speech API, PostgreSQL

❖ **AI-Driven Resume Optimization System**

- **Spearheaded** the development of an **AI-driven resume optimization system**, **boosting success rates by 40%** through **dynamic adaptation** to job-specific requirements.
- **Leveraged OpenAI GPT models** to **automate content alignment** with **industry standards**, ensuring high precision in tailoring resumes for each role.
- **Streamlined** workflows for **scalable resume generation**, enabling **automated** and **dynamic content adaptation** based on **role-specific keywords**.

Technologies Used: OpenAI GPT, Python, markdown-to-PDF libraries, prompt engineering

ACHIEVMENTS / EXTRACIRCCULAR ACTIVITIES

- "Volunteer at JanaSena Party, contributing to social media updates and community engagement since 2019."
- "Honored as one of the Top 50 AI & ML Mentors by Topmate for exceptional leadership, impactful mentorship, and unwavering commitment to empowering learners. Acknowledged for driving excellence in guiding and inspiring the next generation of AI & ML professionals."
- "Received a Medal from the School Management for securing top marks in Class X final exams, in recognition of academic excellence and outstanding performance."
- "Received the Mandal Level Quiz Competition Award representing my school while leading the team to success through strategic preparation, teamwork, and effective leadership."

CERTIFICATES

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| ● Machine Learning Specialist (IBM) | ● Career Essentials in GenAI (Microsoft) |
| ● Associate AI Engineer (SalesForce) | ● Generative AI (Google Cloud) |

VOLUNTEER EXPERIENCE

Social Media and Telecalling Lead | JanaSena Party
Mangalagiri, India

06/2023 - 07/2024

- **Led Social Media Campaigns and Team Coordination:** Spearheaded social media efforts and managed a team of content writers, editors, and telecallers. Organized training sessions and streamlined reporting, boosting team performance and ensuring alignment with party goals.
- **Pioneered Public Engagement and Telecalling Initiatives:** Launched the "SHANMUKA" channel to assess public sentiment, coordinated telecalling campaigns, and compiled critical feedback and reports, directly supporting campaign strategy and leadership decisions.
- **Optimized Election Telecalling and Ground Reporting:** Directed telecalling operations for Pithapuram constituency, collected voter data, and compiled ground reports on transport facilities and vote percentages, providing actionable insights that informed campaign planning.