

GNANAPRASUNA NIMEESHA VAKACHARLA

San Jose, CA | nimeeshav02@gmail.com | +1 (203) 809-7684 | [LinkedIn](#)

SUMMARY OF QUALIFICATIONS

Passionate Data enthusiast skilled in research and development of predictive models using statistics and machine learning, with a focus on business analysis, critical thinking and problem solving to transform data insights into actionable business solutions. Eager to collaborate with cross-functional teams and committed to continuous professional development.

EDUCATION

Master of Science in Data Analytics San Jose State University, San Jose, California	GPA: 3.85/4.00 2025
Bachelor of Technology in Civil Engineering Visvesvaraya National Institute of Technology, Nagpur, India	GPA: 3.90/4.00 2023

TECHNICAL SKILLS

• Languages	: Python, C, R, JavaScript, HTML, CSS, ReactJS, NoSQL, SQL
• Data Engineering & Cloud	: Apache Spark, Hive, Hadoop, AWS (S3, EC2, Lambda), GCP (BigQuery), Azure
• Libraries & Visualization	: Numpy, Pandas, Matplotlib, SciPy, Seaborn, Tableau, PowerBI, Plotly, MS Excel
• Machine Learning	: Scikit-learn, XGBoost, LightGBM, OpenCV
• Deep Learning & Generative AI	: TensorFlow, PyTorch,, CNN, LSTM, RAG, NLP, LLM, Computer Vision, LangChain

EXPERIENCE

Data Scientist , iQuadra, Remote	May 2024 – July 2024
• Developed a seamless orchestrated pipeline for an AI-powered mock interviewer application, automating data extraction, cleaning, and transformations with Selenium web scraping, GCP data warehousing, and Google Composer ETL workflows for model creation.	
• Improved data quality using automatic cleaning methods, resulting in a 30% reduction in inconsistencies and errors. This improved platform performance and user experience while assuring efficient and trustworthy data processing.	
• Collaborated closely with cross-functional teams to define data requirements, improve pipeline efficiency, and guarantee that cleaned datasets were seamlessly integrated into the AI-driven platform.	

ACADEMIC PROJECTS

Automating ETL Pipeline and data warehouse implementation	
• Established the design and implementation of an automated ETL pipeline using Python, Apache Airflow, and BigQuery to streamline data import from the New York Times API, resulting in reduction in processing time.	
• Enhanced data accuracy and transformation success rates were achieved by designing an optimized BigQuery data warehouse schema that was compatible with ETL tools like DBT.	
• Implemented robust Apache Airflow DAG scripts for seamless data management, catalyzing the team to handle scheduled jobs weekly without downtime, thus reinforcing system dependability and operational continuity.	
• Engineered interactive dashboards using Power BI to transform The New York Times dataset into visual business intelligence; facilitated decision-makers to extract insights rapidly.	

Personalized Book Recommendation System

• Established a scalable book recommendation engine by developing solutions to retrieve data from Google Books API and using Hadoop cluster as data warehouse, which allows for easy data access and data collaboration.
• Implemented collaborative filtering (k-Nearest Neighbors with 85% accuracy) and content-based filtering (TF-IDF and cosine similarity with 78% accuracy), preprocessing with PySpark and MapReduce, and customer transaction analytics to achieve a 24% increase in user basket size.
• Created an interactive Plotly dashboard to illustrate suggestion trends and insights, which improved user engagement and experience.
• Generated a Flask-based web application that provides personalized book recommendations by combining complex filtering methods and bespoke user suggestions.

AI Travel planning agent

• Developed an Itinerary Planner Agent with Flight, Weather, and Hotel Agents, using Google Composer for automation, Large Language Models, and Pandas to create personalized trip itinerary.
• Created a Flight Agent using the Amadeus API for real-time flight data (flights, airlines, timetables, pricing) and a Weather Agent using the OpenWeatherMap API for destination forecasts (temperature, conditions), utilizing informal training with LangChain and Google Cloud Functions with Gen AI for conversational insights.
• Defined a Hotel Agent with Booking.com API for hotel information (names, prices, availability, ratings) and Gemini API for personalized recommendations based on user preferences.

CERTIFICATIONS

• Oracle Cloud Infrastructure 2023 AI Foundations Associate Oracle
--

LEADERSHIP EXPERIENCE AND ACHIEVEMENTS

• Secured 20 th position in NVIDIA AI Hackathon held at ODSC in San Francisco, leveraging industry trends in AI to outperform 91% of participants.
• Demonstrated strong leadership and project management, defining project scope while managing departmental responsibilities, and addressing requirements as the Department Representative of Civil Engineering Department.