Vikas Kumar

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EDUCATION

Guru Gobind Singh Indraprastha University   New Delhi, India
Bachelor of Technology in Computer Science & Engineering   *2023 – 2027*

EXPERIENCE

Summer Intern   July 2025 – August 2025
IBM   *New Delhi, India*

- Designed and deployed AI-powered agents using Agentic AI frameworks to automate complex workflows and enhance system intelligence
- Implemented multi-agent systems with Python, leveraging ML libraries for agent communication and task orchestration
- Developed practical solutions through project-based learning, applying data analysis and machine learning techniques to real-world business challenges
- Collaborated with cross-functional teams to integrate AI agents into existing systems, improving operational efficiency

PROJECTS

Titanic Survival Prediction | Machine Learning Pipeline   Python, Scikit-learn, Pandas, SMOTE
github.com/Vikas24/titanic-survival-prediction

- Built end-to-end ML pipeline predicting Titanic passenger survival with comprehensive EDA revealing key survival patterns across passenger demographics and ticket classes
- Engineered features and handled class imbalance using SMOTE technique, improving model performance on minority class predictions
- Optimized Logistic Regression model using GridSearchCV, achieving ~80% accuracy and ~0.85 mean ROC-AUC via k-fold cross-validation
- Designed portable, environment-independent codebase compatible with local systems and Google Colab, ensuring reproducibility

Multi-Agent AI System   Python, AI Frameworks, NumPy

- Developed collaborative multi-agent AI system enabling task decomposition, autonomous decision-making, and inter-agent communication
- Designed scalable framework supporting coordination protocols and distributed task execution using Python and NumPy

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, SQL, HTML, CSS
Machine Learning & AI: Scikit-learn, Supervised & Unsupervised Learning, Multi-Agent Systems
Data Science: Pandas, NumPy, Data Analysis, EDA, Feature Engineering, Data Visualization, Matplotlib, Seaborn
Web Scraping & Automation: Selenium, Scrapy
Databases: SQL, SQL Databases
Core Competencies: Data Structures & Algorithms (DSA), Problem-Solving, Project Management, Scalable System Design
Tools & Frameworks: Git, Agentic AI Frameworks

CERTIFICATIONS

Become an AI Agent Architect

Getting Started with Artificial Intelligence

KEY STRENGTHS

- Strong problem-solving abilities with a data-driven mindset

- Fast learner with proven ability to quickly adapt to new technologies

- Passionate about building scalable, intelligent systems using AI and ML