# Skillsets

## Programming & Databases

Languages: Python | Flask | SQL

Databases: Firestore | BigQuery

## Large Language Models & NLP

Models: Gemini AI | Word Embedding Models | Word2Vec | GloVe | Semantic Search | Text Preprocessing  
Applications: Dialogflow CX | Contextual AI | Query Resolution | Intent Recognition

## Cloud Computing & Deployment

Cloud Platforms: Google Cloud Platform (GCP)  
Services: Dialogflow CX | Cloud Run | Cloud Storage | Cloud Functions | Cloud Logging | Cloud Monitoring  
Containerization: Docker

## Web Development

Frameworks: Flask | HTML

User Interfaces: Custom ChatBOT Web Interface

## Machine Learning & AI Integration

Query resolution using pretrained transformer models (Gemini AI).  
Semantic similarity matching with user queries.  
NLP-based document search and retrieval.

## API Development

Integration with GCP APIs for dynamic responses.  
Financial data API testing and deployment.

## Version Control & Collaboration

Tools: GitHub | Git | CI/CD Pipelines

# Projects

## 1. Intelligent FinWISE AI ChatBOT Application | Domain: Financial Services

### Tech Stacks:

Python | Flask | Dialogflow CX | Google Cloud Platform (GCP) | Docker

### Roles & Responsibilities:

- Designed and implemented a context-aware chatbot using Dialogflow CX, integrated with financial data for real-time query resolution.  
- Set up Gemini AI integration to handle advanced user queries leveraging transformer models.  
- Enabled document upload functionality (e.g., PDFs) for text extraction, embedding generation, and semantic search.  
- Deployed the application on Google Cloud Run for scalable and serverless performance.  
- Utilized Cloud Functions and Firestore for data storage and processing workflows.  
- Integrated Cloud Logging and Monitoring for real-time app performance tracking and debugging.

### Outcomes:

- Delivered a scalable chatbot prototype capable of handling dynamic financial queries.  
- Automated document-based query resolution, reducing response time by 50%.  
- Provided stakeholders with a robust and interactive chatbot, showcasing the potential of AI in financial services.