

✓ Nevis Project – Full Technical Checklist

■ Core Technologies

- Natural Language Processing (NLP)
 - Resume Vectorization & TF-IDF
 - Semantic Similarity Matching
 - Named Entity Recognition (NER)
 - Sentiment & Personality Analysis
- Machine Learning
 - Multiclass Job Role Classification
 - Model Evaluation (F1, Confusion Matrix)
 - Pipeline Optimization (Sklearn / LightGBM)
- Behavioral Modeling
 - Trait Inference Using Open-Ended Text
 - Prompt Engineering + LLM Integration (Optional)

■ Interactive Components

- Streamlit-Based UI
 - Integrated FastAPI Chatbot Backend
 - Real-Time Skill Gap Display
 - Role-Based Analytics Dashboard (Matplotlib / Seaborn / Plotly)

■ Documentation & Structure

- Complete README With Project Summary
- EDA Notebook For Role Descriptions

- Job Role Mapping CSV + JSON Files
- Swagger/OpenAPI For Chatbot APIs

▪ GitHub Repositories

- `/CanGrow2-Raw-Nevis`: Data Science, EDA, Models, Chat Logic
- `/ CanGrow2-Nevis`: Final UI, Integration, Docker
- README.md Must Cover:
 - Installation Instructions
 - Usage Guidelines
 - License And Credits

▪ Deployment & DevOps

- Dockerfile + docker-compose.yaml
- Conda Or Virtualenv Support
- GitHub Commit History (Feat / Fix / Docs / Chore)
- Optional: GitHub Actions For Auto Build
- BONUS: Kubernetes YAML (Advanced)

▪ Bonus Features (For Extra Score)

- 🎬 Intro Video (.mp4)
- 🎨 Custom Logo (.svg / .png)
- 📊 Job Market Trends Visualization
- 📖 Personal Growth Section
- 🧠 Integration With Gemini Or LLM Chatbot
- 📄 Downloadable PDF Report Of Career Roadmap