# Avnish Pal

✉ avnishnish07@gmail.com  🌐 avni.sh  in linkedin.com/in/avnish-pal  ○ github.com/bovem

## Experience

### Software Developer (Contractor)                                    Jul 2024 – Present
*Autodesk*                                                                      *Singapore*

- Implemented an enhanced authentication system for client-side product access service, strengthening security protocols and streamlining user authentication workflows.
- Engineered and implemented a resilient offline caching mechanism to optimize product status communications, resulting in enhanced user experience, reduced server dependencies, and improved system performance.
- Collaborated with cross-functional engineering teams to establish efficient data exchange patterns and architectural improvements, elevating service reliability and scalability.

### Software Quality Engineer                                          Jul 2021 – Jun 2024
*Red Hat*                                                                      *Pune, India*

- Designed and implemented automated pipelines for end-to-end testing of cloud-native product certification services, streamlining validation procedures and enhancing the reliability of certified products.
- Developed a chatbot for real-time reporting of test results and status updates within automated pipelines, fostering team communication and improving monitoring efficiency.
- Created and implemented a comprehensive certification testing pipeline for RHEL OS across Azure, GCP, and AWS platforms, ensuring thorough validation of product compatibility and functionality across diverse cloud environments.

### Software Engineer                                                  Sept 2019 – Jun 2021
*Taiyo AI*                                                                      *Delhi, India*

- Constructed machine learning pipelines and dashboards for predictive stock data modeling, empowering clients with actionable insights for decision-making and investment strategies.
- Developed custom web scrapers and APIs to gather economic data for analyzing supply chain risks, assisting industries in preparing for disruptions in metal, coal, and other commodities.

## Projects

### Chat with Document | *Python, Streamlit, LangChain, Ollama, Generative AI*

- Web application enabling users to upload documents and engage in conversational analysis with self-hosted large language models (LLMs), facilitating document understanding and interactive querying.

### Command Line Tool for Journaling | *Go, Cobra, CLI*

- CLI for journaling daily accomplishments and generating periodic reports (daily, weekly, monthly, bi-monthly), providing users with an organized method for tracking progress and reflecting on achievements.

### Data Analysis Platform | *Dash, Django, Web Development*

- Web platform with modules for visualization, cleanup, and data analysis, allowing users to create custom data pipelines for efficient processing and analysis tailored to their needs.

## Education

### Bachelor of Technology (Information Technology)
*Guru Gobind Singh Indraprastha University*

## Skills

**Programming Languages**: Go, Python, C++, JavaScript, SQL, Bash, Java, Dart
**Libraries & Frameworks**: Cobra CLI, Tekton Pipelines, Streamlit, LangChain, scikit-learn, pandas, TensorFlow, PyTorch, pytest, Dash, Django, Flask, Selenium, Cypress, Apache Airflow, Flutter
**Technologies**: Kubernetes, OpenShift, OpenStack, Podman, Docker, Jenkins, Git, GitHub, GitLab, PostgreSQL, MySQL, SQLite, MongoDB, Grafana
**Platforms**: GNU/LINUX, AWS, GCP, IBM Cloud, Terraform, Ansible
**Languages**: English, German