

# ANKUR DAS

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## Professional Summary

- Highly skilled and motivated individual with over **3+ years** of experience as a **Python Developer**, specializing in **Machine Learning, Designing, Development, Deployment**, and maintenance of **web/applications**.
- Demonstrated expertise across all phases of the software development life cycle (**SDLC**) with proficiency in **Agile** Software Methodology and the **waterfall** methodology.
- Experienced in developing web-based applications utilizing **HTML, CSS, JavaScript, Bootstrap, JSON**, and **XML**.
- Familiarity with **Python** editors such as **Visual Studio Code, Colab, Vim, Spyder**, and **Jupyter Notebook**.
- Worked with various Relational Databases (**RDBMS**) including **SQLite, MySQL**, and **PostgreSQL**, as well as **NoSQL** databases such as **MongoDB** and **Redis**.
- Familiarity with **Python** editors such as **Visual Studio Code, Colab, Vim, Spyder**, and **Jupyter Notebook**.
- Possess extensive command over **Python libraries**, including **NumPy, Pandas, OpenCV**, and **Selenium**.
- Accomplished in Text Analytics, with a track record of developing Statistical **Machine Learning** and data Mining solutions for diverse business problems.
- Experienced in **finetuning** open and closed-source generative AI models and utilizing tools like **Langchain** and **Langraph** for advanced AI applications.
- Proven experience in implementing **CI/CD** pipelines, containerization, and infrastructure as code (**IaC**) practices to enhance efficiency, reliability, and scalability of software applications.
- Proficient in Web services, including **Google Cloud, Microsoft Azure**, and **Amazon AWS Services**.
- Skilled in using **REST Web Services** for data communication between remote systems, with hands-on experience in designing, developing, and testing **REST** interfaces in **Python**.
- Capable of reviewing **Python code** for troubleshooting test cases and bug resolution.
- Experienced in using **version control** systems like **Git, GitHub**, and **GitLab**.
- Committed to delivering high-quality code and solutions with a focus on user experience and performance optimization.

## Skills

- **Methodology:** SDLC, Agile, Waterfall, Scrum
- **Programming Languages:** Python, Java, C++, SQL
- **Frameworks:** Django, Flask, Django Rest Framework, FastAPI,
- **Web Technologies:** HTML, CSS, JavaScript, Bootstrap, Jinja, JSON, XML, Linux Shell Scripts, React, Django, Streamlit, Gradio
- **Version Control:** Git, GitHub, GitLab
- **Databases:** MySQL, PostgreSQL, Oracle, SQLite, MongoDB, Redis
- **APIs and Web Services:** RESTful
- **Tools & IDE:** Microsoft Visual Code, Eclipse, IDE, Pycharm, Splunk, Colab, Vim, Spyder, Putty, WinSCP, JIRA, Trello, Figma
- **M.L. Libraries:** Plotly, Dash, NumPy, Pandas, PyTorch, Keras, TensorFlow, Matplotlib, Seaborn, OpenCV
- **DevOps:** Docker, Kubernetes, AWS, GCP, Azure, Heroku
- **Testing:** Unit Testing (JUnit), Pytest, Pylint, Test Automation (Selenium), Jenkins
- **Other:** Responsive Design, Performance Optimization, Security Best Practices
- **Operating Systems:** Windows, Linux, MacOS

## Education

**Master of Engineering:** Software Engineering, 06/2023

**Concordia University** - Montreal, Quebec

**Bachelor of Engineering:** Computer Science, 2020

**Maulana Abul Kalam Azad University of Technology** – India

# Work History

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## Python Full Stack Developer

03/2023 to Current

Coupa Software – Canada

- Spearheaded the development and maintenance of full-stack web applications using **Python**, **Django**, and **Flask** delivering high-quality, responsive solutions that ensured optimal user experience and cross-browser compatibility.
- Applied **Agile** methodologies to streamline development processes, consistently meeting project timelines and delivering results on time.
- Designed and implemented **RESTful APIs**, facilitating seamless integration with external systems and services, contributing to enhanced functionality.
- Merged two open-source models using **Mergekit**, combining the strengths of the best fine-tuned models.
- Developed collaborative and automated environments by creating multiple agents using **CrewAI** and **LangGraph**.
- Successfully troubleshooted and resolved **Kubernetes** environment issues, ensuring minimal downtime and smooth operation of web applications within the managed cluster.
- **Designed pipelines** to integrate multiple open-source models, achieving tasks beyond the capability of individual models.
- Created a chatbot using **GPT-4**, finetuned the model and created a script to extract important information in bulk from unstructured data.
- Developed and fine-tuned **machine learning** models for generative tasks, including text and image synthesis, contributing to innovative product features.
- Conducted research and stayed updated on advancements in **generative AI**, implementing state-of-the-art techniques to achieve superior results in content generation.
- Implemented and configured **Azure** Form Recognizer as a key component of the data extraction pipeline.
- Actively participated in integration and acceptance testing and developed test plans.

## Python Developer / Machine Learning Engineer

02/2019 to 07/2021

Advanced – India

- Developed and deployed feature-rich web applications using **Python**, **Django**, and **Flask**, ensuring a seamless and engaging user experience.
- Created an end-to-end food recommendation and menu similarity model using **Deep Learning**.
- Applied **waterfall** methodologies to deliver high-quality products within specified schedules, ensuring alignment with project goals.
- Crafted **RESTful** services using the **Python Flask** framework, integrating third-party **APIs** to extend application functionality.
- Contributed significantly to web/application development using **Python**, **HTML**, **CSS**, **Bootstrap**, **JSON**, and **XML**, demonstrating versatility across a range of technologies.
- Implemented **Python**-based test frameworks and actively practiced test-driven development, emphasizing code quality and reliability.
- Utilized **MySQL** as a backend database, employing Python's **MySQL DB connector** for efficient data interaction and management.
- Integrated machine learning algorithms into applications, specializing in Natural Language Processing (**NLP**) and computer vision projects.
- Conducted thorough code reviews, provided constructive feedback, and utilized **Git** for version control, ensuring codebase integrity.
- Developed a script using **Selenium** to scrape valuable information from websites efficiently.
- Incorporated **MLOps** principles and effectively utilized tools to streamline the machine learning development process, ensuring seamless collaboration, reproducibility, and efficient model version control.