

Akash Kumar

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Education

Vel Tech University, Chennai, Tamil Nadu

July 2018 – May 2022

Bachelors in Computer Science Engineering

GPA: 8.03

KV AFS AVADI, Chennai, Tamil Nadu

April 2017 – March 2018

XII CBSE

75%

Skills

Languages: Python, JavaScript, TypeScript, C, C++, HTML/CSS, Bash

Databases: MySQL, SQLAlchemy, Oracle SQL

Libraries: Langchain, NumPy, Pandas, OpenCV

Frameworks: FastAPI, PyTorch, Flask, Node.js, TensorFlow, Bootstrap

Tools & Technologies: Git, Docker, Azure, Heroku, Vercel, Apache Spark

Experience

Cognizant, Software Developer

Oct 2022 – Present

-AI Code Documentation

- Developed a LLM application using Langchain and Huggingface mixtral model and deployed in Azure
- Application would take in Github repository link and generate a documentation over dbt and pyspark files
- Documented file can be downloaded as text file which can be further used as readme file for repositories
- **Tools:** Python, Large Language Model(LLM), Langchain, Pinecone, Nextjs, Azure, Vercel

-Internship

- Worked on Apache Hadoop ecosystem tools
- Worked with Pyspark to optimize query workflows
- Worked with Azure Databricks for ETL operations
- **Tools:** Hadoop, Hive, Scala, Azure Databricks, PySpark

CipherSchools, Python Teacher Assistant

April 2021 – June 2021

-EdTech platform

- Make videos for students to learn.
- Handle assignment evaluation.
- Handle the doubts being posted in the community
- **Tools:** Python, Excel, PPT

Projects

Image Classification-Cats and Dogs

Tech Stack: Python, Flask, SQLAlchemy, Docker, TensorFlow, HTML/CSS

- Built a tensorflow serving model to Classify the images between cats and dogs
- Built backend for signup and login of users using SQLAlchemy
- Users can upload image of Cats and Dogs and would see the result upfront

Student Performance Tracker (UG Major Project)

Tech Stack: Python, Jupyter Notebook, Kaggle, Numpy, Pandas, Scikit-learn, matplotlib

- Data extraction and visualization of student dataset having 31 different attributes
- Plotted various graphs alongwith different factors which are contributing to students performance in exams
- Used various algorithms like KNN, Logistic regression to predict the probability of student passing in exams
- Finally, laid out the most impactful factors in students performance during exam

ReadHub (Library Management System)

Tech Stack: Python, Bootstrap, Flask, SQLAlchemy, PostgreSQL, HTML/CSS

- Login Authentication for users
- Searching and issuing of books in varied genres
- Contacting administrator about any issue/query
- Deployed using Heroku and PostgreSQL