Ashutosh Kala

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EDUCATION

- **VIT Vellore** *2021-2025 | Vellore, India*
Bachelor's of technology in Computer Science and Engineering CGPA:8.63

EXPERIENCE

- **DataNutts IT Solutions** *Aug2023-Present*
Data Engineer Intern *Pune, India*
  – Conducted advanced data analysis on Formula 1 data using Databricks, uncovering intricate patterns and insights.
  – Contributed to the development of "e Swathalaya," a web application streamlining doctor appointments, online payments, and virtual consultations.
  – Played a key role in implementing robust authentication protocols for secure user access.
  – Contributed to the development and management of the slot allocation system, optimizing scheduling for medical practitioners and patients.

PERSONAL PROJECTS

- **Used Car Price Prediction** (Link) *2023*
  – Tools & technologies used: Pandas, Scikit-learn, NumPy, HTML, Flask, Machine Learning: Regression models (Linear Regression, Random Forest, Gradient Boosting)
  – Created a Used Car Price Prediction system using CarDekho data, emphasizing data pre-processing for model optimization.
  – Applied diverse machine learning algorithms, carefully selecting and integrating the top three models.
  – Implemented user-friendly web interface for accurate and accessible car price predictions.

- **NINITE FOR MAC (**Link**)** *2023-Present*
  – Tools & technologies used: Bash and Shell Scripting, Flask, HTML, Render
  – Developing "Ninite for Mac," a groundbreaking web app simplifying Mac app installations via single links, a capability previously exclusive to Windows.
  – Prioritizing user convenience and security, "Ninite for Mac" ensures a seamless and secure downloading experience. Continual improvements for optimal performance.

- **MOVIE RECOMMENDATION SYSTEM (**Link**)** *2022*
  – Tools & technologies used: Bash and Shell Scripting, Flask, HTML, Render
  – Designed and implemented a Movie Recommendation System utilizing machine learning techniques for personalized movie, suggestions-based movies liked by user.

- **AUTOSUBMIT18 (**Link**)** *2022*
  – Tools & technologies used: Python, Selenium
  – Developed a Python-based tool using Selenium to automate code submissions on Codeforces, a leading competitive programming platform.
  – Addressed the time-consuming nature of code submissions, providing a practical solution for competitive programmers, and significantly improving efficiency.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C++, C, SQL, Bash Scripting, Assembly (Intel 8051)
Developer Tools: Conda, pip, Docker, Azure Data Studio, VS Code, DataBricks, Jupyter Notebook
Frameworks: **Scikit-learn**, TensorFlow, Keras, Pandas, NumPy, NLTK, Selenium, PySpark
Coursework: DBMS, OOPS, OS, Computer Network, DSA

ORGANIZATIONS

- **Youth Red Cross Association,** VIT Vellore *2023-Present*

- **IVolunteer,** Delhi *2022-Present*