# About Me

I am Akshaj Alva, I live in Mangalore a coastal city in Karnataka, India. I was born on September 9th 1998. Currently, I **am developing my skills in Data Science and Machine Learning** through self-learning, courses, and hands-on projects and **enhancing my professional profile** by preparing for roles in Data Science and Machine Learning, I am a dedicated professional with a strong belief in the importance of intent as a guiding force for effective problem-solving. My goal is to create solutions that simplify processes and enhance user experiences. I am passionate about applying technical expertise to solve real-world challenges across industries.

# Education

Higher Education

* Degree: Bachelor of Engineering in Electronics and Communication
* Institution: NMAM Institute of Technology, Nitte
* Year of Admission: 2016
* Year of Graduation: 2020

Pre-University

* Course: Science with Mathematics
* Institution: Mahesh PU College, Mangalore
* Board: Karnataka State Board
* Year of Completion: 2016

Schooling

* Institution: Canara Boys High School, Mangalore
* Board: Karnataka State Board
* Year of Completion: 2014

# Work Experience

**Accenture**

* **Role**: Associate Development Analyst – Salesforce Developer
* **Duration**: February 2021 – June 2023
* **Location**: Bengaluru, India

**Key Responsibilities**:

* Developed and implemented custom Salesforce features, enhancing functionality and user experience.
* Automated workflows and processes, increasing efficiency and improving user satisfaction.
* Built and maintained dashboards and reports, driving stakeholder decision-making with actionable insights.
* Managed data tasks, including cleansing, analysis, and loading, ensuring data integrity.
* Led deployment processes for a 6-member development team using Git and Jenkins.
* Presented technical concepts to non-technical stakeholders, bridging communication gaps.

# Skills

**Programming**: Python, SQL  
**Data Science & Machine Learning**:

* Data preprocessing, analysis, and modeling using Pandas, NumPy, and Scikit-learn.
* Expertise in building regression and classification models, including hyperparameter tuning.
* Knowledge of NLP techniques like text preprocessing and feature extraction.

**Tools and Frameworks**:

* LangChain, FAISS (embedding-based workflows).
* FastAPI (backend development).
* GitHub, Git (version control).

**Salesforce**:

* Proficient in Salesforce administration: workflows, automation, and data management.
* Skilled in developing and deploying custom solutions to enhance user experience.

**Soft Skills**: Analytical thinking, problem-solving, teamwork, and communication.

# Projects

1. **House Price Prediction**:
   * **Objective**: Built a model to predict house prices based on features like location, size, and amenities.
   * **Techniques**: Exploratory Data Analysis (EDA), feature engineering, and hyperparameter tuning.
   * **Models**: Linear Regression, Random Forest, Gradient Boosting.
   * **Results**: Achieved an R² score of **0.9063**, providing valuable insights into pricing trends.
   * **Tools**: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn.
2. **Cubic Zirconia Price Prediction**:
   * **Objective**: Predicted the price of cubic zirconia stones based on physical and geometric attributes.
   * **Techniques**: EDA, feature engineering, and advanced modeling.
   * **Models**: XGBoost, achieving an R² score of **0.9802**.
   * **Tools**: Python, Pandas, NumPy, Scikit-learn, XGBoost.
3. **Interactive AI Chatbot for Personal Portfolio**:
   * **Objective**: Designed a chatbot to enhance engagement on my portfolio website.
   * **Key Features**:
     + **Context-Aware Responses**: Uses a custom knowledge base to provide accurate answers.
     + **Technologies**: Retrieval-Augmented Generation (RAG), FAISS, LangChain, FastAPI.
     + Deployment: Hosted on Render
     + Frontend: Integrated with a GitHub Pages-hosted portfolio
   * **Results**: Successfully deployed on my portfolio, enabling real-time user interaction.

### **Website**

* **Purpose**: The website serves as my personal portfolio, offering a comprehensive view of my career journey, skills, and projects. It is designed to highlight my experience in Data Science and Machine Learning, showcasing relevant skills, achievements, and the projects I've worked on.
* **Key Features**:
  + **Home Section**: This section introduces visitors to my professional background, including my work at Accenture, my education, and my career shift into Data Science. It also includes a display of my technical and soft skills.
  + **Projects**: Highlights various hands-on projects, such as machine learning models and AI-driven applications, with detailed explanations of techniques, tools, and results.
  + **Interactive AI Chatbot**: Provides real-time responses based on my knowledge base, offering information about my work experience, skills, and projects.
  + **Contact Information**: Visitors can contact me for professional opportunities or collaborations.

# Personal Interests

* Passionate about sports and event organization, with hands-on experience in marathons, triathlons, and surfing events.
* Avid runner and blogger, sharing insights on how sports mirror personal growth and life lessons.
* Interests include boxing, MMA, and fostering community through sports.

# Career Gap

In my final year at Accenture, I discovered a keen interest in the sports industry. I took a career break to explore this passion, actively volunteering at sports events like marathons, triathlons, and surfing competitions. I gained hands-on experience in event management and even cleared the FIFA Agent exam.

A unique opportunity introduced me to data science through a project aimed at measuring the social impact of football clubs on communities. This sparked my interest in statistics and data-driven solutions.

Since April 2024, I’ve been dedicated to developing data science skills through self-learning and projects, preparing myself to solve real-world problems across industries, including sports.