

# VIVEK PILLAI

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Nalasopara, Palghar-401203

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## PROFESSIONAL OVERVIEW

Final-year Information Technology student at St. Francis Institute of Technology with academic and project-based experience in full-stack development, AI/ML, DevOps, and cloud technologies. Proven ability to deliver innovative solutions through diverse projects, including AI-driven career analytics and NLP-based sentiment analysis. Enthusiastic about solving real-world challenges through technology.

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## TECHNICAL SKILLS

- **Languages:** Python, Java, SQL
- **Databases:** PostgreSQL, MongoDB, MySQL
- **DevOps & Tools:** Git, Docker, Jenkins, CI/CD
- **Cloud Platforms:** AWS
- **AI/ML & Data Science:** Scikit-learn, Pandas, NumPy
- **Web Development:** HTML, CSS, JavaScript, React, Node.js, Express
- **Testing Tools:** Postman, Unit Testing, Selenium
- **GUI Framework:** Python Tkinter

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## PROJECTS

### 1. Drona AI – Sports Career & Performance Analytics

**Web Scraping, AI/ML, Data Science | Python, Scikit-learn, Flask, BeautifulSoup**

- Developed AI-driven platform analyzing athlete performance data to recommend career paths and training optimization
- Implemented machine learning algorithms for performance prediction and career guidance
- Enhanced athlete decision-making through data-driven insights

### 2. Sentiment Analysis on Twitter & Reddit

**NLP, Machine Learning | Python, Scikit-learn, Flask**

- Built real-time sentiment classification system processing live social media feeds
- Achieved 85%+ accuracy in positive/negative sentiment detection using NLP techniques
- Deployed web interface for real-time sentiment monitoring and analysis
- Processed 1000+ tweets/posts for training and validation

### 3. CouponX – Student Performance-Based Coupon System

**Full-Stack Development | React, Node.js, MongoDB**

- Created web platform incentivizing student performance through dynamic coupon rewards
- Implemented responsive frontend with React and RESTful API backend
- Integrated MongoDB for user data management and performance tracking
- Increased student engagement through gamified reward system

4. Library Management System

Desktop Application | Python Tkinter, MySQL

- Developed comprehensive library management solution with book inventory tracking
- Built admin dashboard for book issuance, returns, and transaction history
- Implemented search functionality and automated fine calculation system
- Streamlined library operations for 500+ book inventory management

EDUCATION

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<b>Bachelor of Engineering – Information Technology</b> St. Francis Institute of Technology, Mumbai	<b>2022 - 2026 (Expected)</b>
<b>Higher Secondary Certificate (HSC) – Science Stream</b> St Peter Junior College of Science,Commerce and Arts MHT-CET: 85.86%	<b>2020 - 2022</b>
<b>Secondary School Certificate (SSC)</b> Holy Cross Convent School Nanbhat  87.20%	<b>2019 - 2020</b>

ACHIEVEMENTS & CERTIFICATIONS

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Colloquium 2024 – Project Showcase

Secured 2nd Consolation Prize for the innovative project "Drona AI – Propelling Career and Performance in the Sports Ecosystem", which uses AI to analyze athlete data and provide career guidance and performance insights.

**Certification** - Diploma in Web Programming

**Languages** - English , Hindi, Malayalam, Marathi