

Pranava Kailash Subramaniam Prema

Data Scientist / Data Engineer

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PERSONAL STATMENT

As a resolute **Data Scientist** with a strong academic background, including an **MSc in Data Science** and a **First Class BE in Computer Science**, I have developed a passion for using data to solve complex problems. My experience spans **machine learning, web scraping, and data analytics**, where I have consistently driven efficiency improvements and automated processes. Proficient in technologies such as **Python, MySQL, NLP, TensorFlow, and AWS**, I am eager to bring my skills and innovative mindset to a forward-thinking team, aiming to make a tangible impact in data-driven decision-making.

EDUCATION

MSc in Data Science | University of Surrey, Guildford, London | 2024 – 2025

- **Modules:** Database Management, Cloud Computing, Natural Language Processing (NLP), Advance Web Technologies, Data Science and Principles, Computational Intelligence, Business Analytics, Machine Learning and Data Mining
- **Dissertation:** CyNER 2.0: A Named Entity Recognition Model for Cyber Security, where the model extracts entities related to Cyber Security for STIX format generation

BE in Computer Science and Engineering, First Class | SNS College of Technology, India | 2019 - 2023

- **Modules:** Operating Systems, Discrete Mathematics, Artificial Intelligence, Neural Networks and Deep Learning, Full stack development, Grid and Cloud Computing, Natural Language Processing, Database Management, Data Structures and Algorithms, Linear Algebra and Calculus, Object Oriented Programming, Agile Software Engineering, Computer Organization and Architecture, Python Programming, Data Analytics, Automata theory, Microprocessors and Microcontrollers
- **Dissertation:** V-Verify with Biometric System Using Design Thinking Framework, where the person is identified using their fingerprint and voter ID to go ahead with voting

WORK EXPERIENCE

Independent Regulatory Data Researcher | Freelance | October 2022 - January 2024 | Remote, India

- Automated data extraction by developing Python-based web scraping scripts, reducing manual data entry time by **50%**
- Enhanced operational efficiency by **10%** through modifying and optimizing the internal Python library for streamlined image importation
- Led the seamless migration of critical datasets between **SQLite and MySQL** databases, ensuring **zero data loss** and minimal system downtime

Data Science Intern | Yoshops.com | February 2022 - April 2022 | Remote, India

- Designed and implemented web scraping tools to automate data collection, resulting in a **40%** increase in the accuracy of real-time pricing updates
- Built machine learning models for product price prediction, improving forecasting accuracy by **20%** through historical data analysis and market trends
- Conducted comprehensive data analysis using Python, delivering actionable insights into customer behaviour and product performance
- Developed a machine learning model with **90%** accuracy for osteoarthritis detection, leveraging **VGG16** for high-precision feature extraction and classification in a medical setting

Data Science Intern | Forsk Coding School | March 2021 - June 2021 | Remote, India

- Conducted in-depth sentiment analysis on customer reviews using natural language processing (NLP), finding key areas for product improvement
- Built and deployed a scalable machine learning model on **AWS for sentiment analysis**, ensuring high availability and real-time insights from large datasets

- Leveraged statistical and machine learning techniques to extract **business insights** from unstructured datasets, providing valuable recommendations to stakeholders

EXTRACURRICULAR ACTIVITIES

- **Organizer** – Led **40+** technical workshops and webinars focused on innovation in computer science and technology
- **Competitions** – **Won 2 Ideation** events, highlighting creative problem-solving and collaboration
- **Treasurer** – Managed funds (**~£500**) for college events, ensuring budget compliance and event success
- **Centre For Creativity Award** - Awarded for outstanding contributions to innovative thinking under design thinking framework
- **Founder, REGEX-CSE Club**: Set up and grew a student network to foster collaboration and innovation in computer science

LANGUAGES

- English (Professional Working Proficiency)
- Tamil (Native Proficiency)
- Hindi (Limited working Proficiency)
- Deutsch (Elementary Proficiency)

SKILLS

- **Programming Languages & Libraries** – Python, MySQL, SQLite, TensorFlow, Scikit-learn, Hugging Face Library
- **API Frameworks** – Flask, FastAPI
- **Automation, Scraping & Testing** – Selenium, BeautifulSoup
- **Data Science & Machine Learning** – Natural Language Processing (NLP), Data Analysis, Data Cleaning, Data mining
- **Cloud & Deployment Technologies** – AWS (EC2, S3, Lambda), Docker
- **Version Control** – Git, GitHub
- **Data Pipelines & ETL** – Extract Transform and Load (ETL)
- **Regulatory & Compliance Knowledge** – Anti-Money Laundering (AML), Know Your Customer (KYC), Combating the Financing of Terrorism (CFT)
- **Software Development** – RESTful API Integration, Agile Methodology
- **Soft Skills** – Communication, collaboration & teamwork, problem-solving, adaptability & flexibility, time management, leadership, emotional intelligence, growth mindset

CERTIFICATES

- Python MOOC course (With honours)
- Mathematics for Machine Learning (Coursera)