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Experience professional in the technical learning and development domain with 7 years of experience in training clients on technologies like Robotics, embedded systems, Internet of Things, Machine Learning, Data Science, Data Analytics and Informatica Data platforms and services. I have 7 years of experience in designing and developing curriculum on the above technologies to upskill a people from school kids to C-level executives using both child and adult learning techniques.

I have 2 years of experience in MNC's like Informatica and Amazon in roles related to Data engineering, Data Analytics and Business Intelligence working with Big Data deriving insights to drive data-driven decisions.

EXPERIENCE & SKILLS

Business Intelligence Engineer
Amazon

Jul 2023 – Dec 2023
Luxembourg, Luxembourg

Technical Skills:
- Data Analysis – Python, SQL, MS Excel, AWS Sagemaker Data Wrangler, SweetViz, Pandas_profiling | Pattern mining, relationship mining
- Data Quality – Python, pandas, ydata_profiling, great expectations | Associative rule mining, dimension – value relationship
- Business Intelligence – SQL, ETL, Amazon QuickSight | Automated customs broker data audit

Business/Soft Skills:
- Import/Export broker data reports, Single Agreement Document (SAD), External Stakeholder collaboration | Amazon Chime, MS Teams, Asana

Achievements:
- **Engineered Data Quality and Validation** rules in alignment with business requirements; improving **data readiness from 38% to 86%**
- **Design and built** an unprecedented automated scalable audit **dashboard**, increasing the **number of records** audited by **70%**
- **Architected Data Schema** for import customs brokers data reports to onboard **4 brokers** on to the Amazon's Customs Central program
- **Realigned team's responsibilities** with stakeholder's priorities during the **team transition** from an Audit to Risk Assurance function

Senior Curriculum Developer
Informatica Business Solutions

Nov 2021 – Aug 2022
Remote (Global Remit)

Technical Skills:
- Enterprise Data Preparation, Master Data Management, PowerCenter (ETL), Customer 360 Insights, B2B Data Exchange, Informatica Intelligent Cloud Services, Linux Server, Big Data, Hadoop, Apache Hive, Relation Databases

Business/Soft Skills:
- MS PowerPoint, MS Word, Adobe Captivate, Articulate Rise, Camtasia | Curriculum development, Internal stakeholder management, Product quality testing, Peer collaboration, Blended Learning, Story boarding, E-learning module development, LMS Management

Achievements:
- **Created 4 instructor-led** courses on **Informatica products and services** with Instructional lab manuals using Technical Tools increasing **sales pipeline by 22%**
- **Developed 4 e-learning courses** using Articulate Rise 360, Adobe Captivate and Camtasia to **upskill global clients** and improve productivity YoY
- **Managed and assisted** a team of **12 trainers globally** to interface with more than **15 clients** on a weekly basis

Senior Engineer and Digital Transformation Executive
Lema Labs Technologies

Apr 2020 – Sep 2021
Chennai, India

Technical Skills:
- ML/AI, IoT, Robotics, Embedded systems, Adobe Premiere Pro, After Effects, MS PowerPoint, Videography, Greenscreen shooting, Storytelling, LMS development (OpenEDX), LMS content management, Content creation Directing

Business/Soft Skills:
- Risk management and mitigation (Covid Crisis), Business Strategy, Business development content creation, Social Media marketing, Teaching virtual classes | Google meet, Customer Satisfaction, Feedback collection, Customer CHURN analysis, Customer Retention

Achievements:
- **Managed** the **transformation** of **3 offline products into online products** retaining **60% of annual revenue** during the covid crisis
- Created customized learning paths for B2C clients and dynamic training programs for B2B clients based on their needs
- Led the recording, editing and maintaining course content on the inhouse Learning management system (LMS)
- Responsible for **onboarding 100+ clients per month** on our LMS platform
- **Training and mentoring clients** in AI/ML and IoT through online platforms generating **40% of company revenue** during covid crisis

AI/ML Engineer and Product Manager
Lema Labs Technologies

Jan 2018 – Mar 2020
Chennai, India

Technical Skills:
- ML/ DL Algorithms - Regression (Linear, Logistic), Decision Trees, Naïve Bayes, Ensemble techniques (Bagging, boosting, bootstrapping, random forests), SVM's, CNN, RNN, Hog-SVM, Masked R-CNN, LSTM
- ML/ DL/ NLP toolkits - Sci-Kit Learn, SciPy, TensorFlow, Keras, Caffe, Yolo, NLTK | used later – Open AI, LangChain | Jupyter Notebook, Google Collab
- Data Toolkits - Pandas, NumPy, Matplotlib, Seaborn, Plotly, BeautifulSoup
- Techniques - Data pre-processing, Modelling, Evaluation metrics (Accuracy, AUC-ROC, Recall. Precision), Deployment

Business/Soft Skills:
- Lean & Agile Product management, Task delegation, Team management, Frugality, Training, Mentoring, Technical consulting, Business development, Business strategy, Customer need analysis, Hiring manager, Employee Onboarding | Canva, Figma

Achievements:
- **Led the development** of a 13-week Machine Learning course contributing to a **60% increase in the company's annual revenue**
- **Led the pivotal change** of the 5-day Robotics course; increasing the **sales pipeline by 30%**
- **Hired 3 new entrants** and successfully onboarded them
- **Trained and mentored 2500+ clients** in Robotics, IoT and Machine Learning also ensuring **45% of recurring customer base**

IoT Engineer and Product Developer
Lema Labs Technologies

Nov 2016 – Dec 2017
Chennai, India

Technical Skills:
- Internet of Things, Micro-python, NodeMCU, Raspberry Pi, MQTT Protocol, Webhooks, Adafruit IO, Firebase DB, Thing speak, IFTTT, Monitoring sensor data, Automation, Data logging

Business/Soft Skills:
- Product development, CI/CD, Lean startup methodologies, Agile PM, Customer feedback analysis, Customer need analysis, Market survey, Business development, Social Media marketing, Training, Mentoring, Technical Consulting, Stakeholder communication, Event management | Notion, Basecamp, Wireframing, Mindmap

Achievements:
- Managed the development of 2-day Kaizen IoT Workshop increasing the annual revenue by 45%
- Initiated and developed 2 new training programs based on current industry trends and market & client needs
- Created business development content and deployed marketing strategies to increase sales lead by 30%
- Created a maker's community with an 25% annual active new member joining rate
- Organized 10+ events (Hackathons, Robotics competitions, Project exhibitions) to promote innovation among clients

Robotics and Embedded Engineer and Training Executive
Lema Labs Technologies

Oct 2015 – Oct 2016
Chennai, India

Technical Skills:
- Embedded systems – Embedded C, Arduino, GCC | ATMega, STM32 | GPIO, ADC, USART, I2C, SPI, 1-wire, CAN | Sensors, Motor drivers, DC Motors, Stepper Motors, Servo motors | LED display, LCD display, TFT display
- Robotics – Mobile robots, Path planning Algorithms, SLAM, Cartesian Robots (2-axis & 3-axis)

Business/Soft Skills:
- Training, Mentoring, Customer engagement, Customer Retention, Customer satisfaction, Hands-on teaching, Instructor led training, Presentation

Achievements:
- Trained 500+ clients in Robotics and mentored 250+ clients on their innovative projects and tech competitions
- Created a new revenue stream during the off-season months by developing 2 new training programs for a targeted audience

EDUCATION

SKEMA Business School – Paris, France
MSc Artificial Intelligence for Business Transformation

Sep 2022 – Dec 2023

SKEMA Business School – Paris, France
Diplôme d'Etudes Spécialisées en Management International (PG Diploma in International Management)

Sep 2022 – Dec 2023

KCG College of Technology – Chennai, India
Bachelor of Engineering Electronics and Communication Engineering

Aug 2010 – Jun 2014

SOFT SKILLS

- **Trend Setter:** Proactively updated in both tech and business processes implementing new ideas in an evolving professional environment
- **Firefighter:** An agile problem solver with the ability to multitask in a challenging environment and situation
- **Servant Leader:** A leader who believes in leading by example and delegating tasks by people's ability and passion
- **0 – 60 in 3 months:** Proven track record of learning new technologies, business processes and everything else to a 60% in 3 months
- **Energizer:** Can energize self and others around to have a productive work environment
- **Orator:** Can present ideas clearly with a mastery of creating info-graphical presentations and storyboarding both tech and business ideas

CERTIFICATIONS

- Data Analyst with Power BI (Datacamp)
- Large Language Models (ChatGPT & LangChain) : Developer's Masterclass (Udemy)
- Machine Learning – Andrew NG (Coursera)
- Kaizen Careers Program (Robotics and Embedded Systems) – Lema Labs
- Agile PM Foundations – APMG International
- Leadership Development Program – Compassion International

AWARDS AND RECOGNITION

- Won 1st place in the Micro mouse challenge at the World Robotics Championship
- Recognised by Lema Labs Technologies as the key leader for ensuring a recurring customer base
- Recognised as the best solution by Orange Telecom for ideating a new product in the domain of E-Sports
- Invited for guest lectures and talks by multiple institutions of eminence including SRM university, and SR college of Engineering
- Invited as chief adjudicator for multiple hackathons, robotic competitions and project innovation challenges

PROJECTS

TECHNICAL

- Create a digital transformation portfolio to transform a casino to operate on cloud architecture using AWS services

Data Analytics:

- Developed a Power BI dashboard to monitor customer CHURN and identify the factors in play to create customer retention strategies
- Analysis of HR data to measure employee Attrition and monitor factors affecting employee retention using Power BI
- Analysis of online shopper trends and determining the factors contributing to completion of purchase
- Performed Exploratory Data analysis to profile and segment insurance customers. Created a data model to recommend custom pricing plans for individuals

ML/AI/NLP:

- Created a Deep Learning model to detect human emotions based on facial expressions with 72% accuracy in prediction
- Created a Deep Learning model to identify disease in plants and deployed the model on a drone using computer vision
- Developed a Machine Learning model to identify breast cancer and diabetes based on patient medical data
- Developed a Machine Learning model to categorize financial tweets into business topics along with a sentiment analysis of the post
- Created a recommendation system to recommend user movies to watch based on user similarities on the OTT platform

IoT, Robotics & Embedded Systems:

- Create a smart home automation to monitor activities and regulate the power usage based on necessity
- Developed a wireless sensor node to monitor factors for irrigation to automate the irrigation of a coconut groove
- Built an all-terrain vehicle with sensors and actuators to perform search and rescue
- Built a 2-axis cartesian robot to draw images or write on paper the input fed from the computer
- Built a maze solving micro-mouse robot to solve both line and wall mazes

MANAGEMENT

- Risk management portfolio for P&G (Procter & Gamble)
- Strategy portfolio for French Bee airline to transform their business digitally
- Marketing portfolio for Orange Telecom to gain market share in e-sports industry

PEER REVIEW PUBLICATIONS

Peer-reviewed paper:
Application of Geo-spatial data using AI; February 2023; SKEMA AI School, SKEMA Business School; peer reviewed by Mihir Sarkar, Professor of Applications of AI

Ecological effects of Digitalization; September 2022; SKEMA AI School, SKEMA Business School; peer reviewed by Dr Lionel Provost, Professor of AI in Society

Expected Publication:
Social Factors affecting performance in Virtual Learning Environments; April 2024; International journal of Policy Sciences and Law Vol 3 issue 8

INTERESTS

Photography | Cinematography | Trekking | Road Trips | Football | Board games | Cuisine | DIY Projects (Robotics & Drones)