Sumanth H S

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EDUCATION

- **Indian Institute of Technology (IIT) Roorkee** — Roorkee, India
  M.Tech - Data Science, GPA: 8.71 — *Sept 2021 - Sept 2023*
  Courses: *Data Structures and Algorithms, Machine Learning, Deep Learning, Databases*

- **BMS College of Engineering** — Bangalore, India
  B.Tech - Mechanical Engineering, GPA: 8.76 — *Sept 2016 - Sept 2020*

SKILLS

- **Languages**: Python, Go (Golang), Ruby, C++, Postgres, SQL, HTML, CSS
- **Frameworks**: FastAPI, Django, Ruby on Rails, Flask
- **Tools**: AWS(EC2, S3, Lambda, ECR), Kubernetes, Docker, Apache Kafka, Redis, Git

EXPERIENCE

- **CoinDCX** — Onsite
  Software Engineer (Full-time) — *June 2025 - Current*
  - **Futures Platform**: Designed and implemented a robust CDC (Change Data Capture) pipeline between the monolith and the dedicated Futures database, enabling reliable real-time data synchronization across services. Built monitoring, retry, and cron-based backfill mechanisms to recover missed CDC events and maintain data consistency
    - **Impact:** Optimized Futures order-placement APIs by moving multiple DB lookups to a single Redis Lua script, significantly reducing latency.
    - **Stack:** Ruby, Rails, Golang, Kubernetes, AWS, PostgreSql, Redis

- **Kreditbee** — Onsite
  Software Engineer (Full-time) — *June 2023 - June 2025*
  - **Business Loan Rule Engine**: Designed and built a complex underwriting rule engine that approves business loans using micro-service architecture. Developed **5+ REST APIs** to integrate with vendors (TransUnion, PayU, MobiKwik, Dow-Jones), reducing API response time from **5s to 3s (40% improvement)** using Asyncio.
    - **Impact:** Increased loan disbursal from **60 Cr to 120 Cr per month** and reduced approval time by **17%**.
    - **Stack:** Python, AWS(EC2, S3, Lambda, ECR), Django, Fast API, Redis, Git, Mysql
  - **OCR Service**: Developed an OCR service with Google Cloud Vision to automate business proof document verification, eliminating manual intervention. Extracts the main key-value pairs like address details, business info, etc., in unstructured documents essential for issuing the loan agreements.
    - **Impact:** Automated document verification, reducing manual intervention by **15%**, saving around **12 lakhs** annualy.

- **Kreditbee** — Onsite
  Software Developer Intern — *Feb 2023 - Jun 2023*
  - **Bank approval Rule Engine**: Designed backend architecture for approving customer bank accounts for loan disbursals. Implemented a mechanism to mark customers as fraud based on details like bank statement tampering, anti-money laundering databases etc.
    - **Impact:** Increased automated bank account approvals, processing **350+** accounts daily, reducing manual intervention. Enhanced fraud detection by identifying **130+** blacklist profiles daily, reducing loan default ratio and lending risk.

PROJECTS

- **Reviews A2Z (NLP, Web scraping)**: Implemented a sentiment analysis solution for Flipkart product reviews using NLP. Scraped **10,000+** reviews, applied Tokenization, Bag of Words, and implemented classification models achieving **93%** accuracy in sentiment prediction.
  - **Tools:** Python, Django, BeautifulSoup, Bag of Words, Classification Algorithms.

- **Human-Machine Interaction based Anti-spoofing Face recognition system (Computer Vision, Deep Learning)**: Researched various anti-spoofing models to prevent 2D image and video replay attacks in face recognition systems. Explored methods including Human-Machine Interaction, life information capture, image quality analysis, depth analysis, and CNN-based deep learning. Devised a model using Google's Mediapipe Library to map 3D facial landmarks and apply random instructions to differentiate between real and spoofed faces.
  - **Tools:** Python, Tensorflow, Mediapipe, MTCNN model.

- **WhichBook (Recommendation system)**: Designed a recommendation system using Popularity and Collaborative Filtering techniques to suggest books based on user preferences from a Kaggle dataset. Built a simple frontend using HTML/CSS and integrated the model into a Flask-based REST API for user access.
  - **Tools:** Python, Flask, HTML, CSS, Collaborative Filtering.

HONORS AND AWARDS

- Best New-comer Award, Kreditbee - Feb 2023
- Star Performer Award, Kreditbee – Sept 2024
- Awarded All India Rank of 137, GATE Examination 2021