

# S K Manoj

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## EDUCATION

<b>Vellore Institute of Technology (VIT), Chennai, TN</b> <i>B.Tech. in Computer Science (AI &amp; ML), CGPA: 8.28</i>	Aug 2021 – May 2025
<b>Vidhya Niketan Public School, Coimbatore, TN</b> <i>Higher Secondary Certificate (CBSE), Percentage: 91.4</i>	Aug 2020 – May 2021

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, SQL, JavaScript, HTML, CSS  
**Frameworks & Libraries:** Django, Flask, TensorFlow, React  
**Systems & Tools:** Unix/Linux, Docker, Kubernetes, Jenkins, Apache Kafka, Github  
**Cloud Platforms:** Google Cloud Platform (GCP), AWS (SageMaker, EC2, EMR, S3)  
**Databases & Storage:** PostgreSQL, MySQL, AWS S3  
**Expertise:** Distributed Systems, Machine Learning, Web Programming, AI, NLP, Networking (TCP/IP)

## WORK EXPERIENCE

<b>Data Science Intern</b> <i>Yubi (Credavenue)</i>	Mar 2025 – Aug 2025 <i>Chennai, TN</i>
<ul style="list-style-type: none"><li>Engineered a LLM-driven Personal Loan Validation module for Aditya Birla Capital Limited (ABCL), automating critical workflows.</li><li>Constructed a rule-based document validation engine using Large Language Models (LLMs) for Aditya Birla Finance Limited (ABFL), improving Information Retrieval efficiency from loan documents.</li><li>Architected Django APIs for LLM-powered document processing modules, reducing manual effort by 40%.</li><li>Deployed a Face Validation system with advanced facial analysis achieving 99% accuracy for identity verification, dynamically adjusting thresholds to minimize false positives.</li><li>Designed an OCR pipeline to extract bank statement metadata, accelerating document processing speed and enhancing accuracy by 35%.</li><li>Orchestrated services using Docker and Kubernetes, implementing CI/CD pipelines in Jenkins to ensure scalable deployment.</li><li>Integrated Apache Kafka for real-time data streaming, producing and consuming 1000+ messages daily within an event-driven architecture.</li><li>Leveraged AWS services (SageMaker, EC2, EMR, S3) for ML model deployment, storage, and high-volume data handling.</li></ul>	

## PROJECTS

<b>EZ Resume</b>   <i>Next.js, TypeScript, PostgreSQL, Gemini AI API</i>	Dec 2024 – Feb 2025
<ul style="list-style-type: none"><li>Engineered an AI-powered resume builder integrating NLP and Information Retrieval via Gemini 2.5 Flash API to auto-generate job-tailored resumes.</li><li>Implemented scalable workflows with drag-and-drop customization, auto-save, and cloud deployment on Vercel, maintaining 99% uptime.</li><li>Enhanced user experience by enabling PDF export, secure file uploads, and mobile responsiveness, increasing adoption by over 200 users.</li></ul>	
<b>Google Data Analytics Capstone</b>   <i>R, SQL, Tableau</i>	Jan 2023 – Mar 2023
<ul style="list-style-type: none"><li>Executed data cleaning, visualization, and modeling on 692 bike stations data, applying Information Retrieval and statistical analysis to uncover actionable user trends.</li><li>Delivered insights to optimize segmentation of casual vs. member riders, directly influencing business retention strategies.</li></ul>	