




K Santosh Kumar

Full Stack Developer / AI & ML Engineer / Data Scientist / Cloud Architect

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 Bangalore/India

PROFILE

- Am a Multi-Disciplinary Tech Professional Skilled In Full Stack Development, AI & ML Engineering, Data Science and Cloud Computing.
- With over nine years of hands-on experience in the tech industry, I bring a wealth of knowledge and expertise to every project.
- For more details about my works, my certifications and my projects please visit my portfolio at <https://ksk-ventures.com/me>

PROFESSIONAL EXPERIENCE

AI/ML Engineer

Apr 2022 – Apr 2024

KSK Ventures

Artificial Intelligence & Machine Learning Engineer

- Contributed to developing and advising on AI & ML software solutions for global businesses within a dynamic startup environment.
- Dedicated to continuous personal upskilling, actively applying cutting-edge technologies and methodologies in practical projects.
- Independently completed 3 projects for 3 clients, delivering AI Software Solutions in the NLP & Computer Vision domain.

Achievements:

- Developed a Custom ChatBot for a Hungary (Europe) client using Ollama LLM, and trained it with custom data using Lang-Chain.
- Developed a 'Dialogue Segmentation App' for a US client using Python and the BERT Open-Source LLM model.
- Developed and successfully trained a 'Computer Vision Model' used for Object Detection using TensorFlow and OpenCV.

Senior Software Developer

Jul 2019 – Jan 2022

E-Mech Solutions

Senior Software Developer

- Interacted with clients, understanding business requirements, and provided appropriate technology solutions.
- Played a pivotal role in achieving project milestones and contributing to the company's growth and success.
- Promoted to the position of 'Senior Software Developer & Team Leader' after the completion of two years.

Achievements:

- Built RESTful APIs using Node.js and Express.js to serve front-end applications for a Multi-Vendor E-Commerce Platform.
- Collaborated with the Data Science team to implement Product Recommendation Algorithms, boosting user engagement.
- Trained and mentored a junior back-end developer on the team on how to effectively develop API and end-points.

Software Engineer

Jan 2017 – Apr 2019

Reno Plas Pvt. Ltd.

Software Development Engineer

- Worked closely with team members, senior developers and project managers to contribute to planning and decision-making.
- Conducted performance tuning and optimization of applications to improve speed and efficiency.
- Developed and maintained documentation for software applications, ensuring clarity and ease of use for future developers.

Achievements:

- Designed and developed the MongoDB schema for an ERP College Management Application for data storage and retrieval.
- Collaborated with a frontend developer to design and implement a dynamic dashboard for real-time data visualization.
- Worked on the in-house desktop billing application which was built on the Java Framework.

Associate Software Developer

Sep 2014 – Jan 2017

Space Age Infotech

Associate Software Developer

- Actively participated in software testing and debugging processes, ensuring the delivery of high-quality products.
- Participated in code reviews with team members and gained feedback from senior developers.
- Continuously learn new technologies and best practices to improve skills.

Achievements:

- Developed and designed HTML/CSS landing pages for static websites by analyzing other successful websites.
- Performed user testing and cross-browser testing for websites, ensuring optimal performance and visual quality.
- Identified and fixed bugs in legacy code to enhance system performance and efficiency.

Co-Owner & Manager

Aug 2009 – Jul 2014

E Sports – Internet/Cyber/Gaming Center

System Administrator & Store Manager

- Co-Founded, managed, and operated a successful internet/cyber cafe cum gaming center for five years.
- Provided technical and troubleshooting assistance to customers, ensuring swift resolution of computer operation tasks.
- Provided computer and software sales & services, and after-sales technical support to ensure customer satisfaction.

Achievements:

- Established and maintained a fully functional facility with 18 computers, 3 printers and a xerox machine.
- Increased revenue by 150% through strategic hardware upgrades, ensuring compatibility with trending technologies.
- Achieved international recognition through participation in global events, enhancing brand reputation.

PROJECTS

Artificial Intelligence & Machine Learning

12 Months

- Project 4: Developed a Face Detection Model using Python, TensorFlow, OpenCV and Alumentations
- Project 3: Developed an Open Source NLP-Solutions Model by using Falcon-7B by Huggingface and Langchain
- Project 2: Developed a Deep-Fake Model Using InsightFace and OpenCV
- Project 1: Developed a Language Translation Model using the Transformers Library and Gradio UI

Cloud Architect - Masters Program

11 Months

- Project 4: Deployed an Online Movie Watching Application on the Cloud (AWS Solutions Architect : Professional Level)
- Project 3: Deployed Azure Protected Geo-Redundant Solution with Path-Based Routing (Azure AZ : 305 Level)
- Project 2: Set-up and Monitoring of a WordPress Instance (AWS Solutions Architect : Associate Level)
- Project 1: Implemented Azure IaaS (Azure AZ : 104 Level)

Data Scientist - Masters Program

11 Months

- Project 4: Conducted Data-Driven Customer Behavior Analysis to enhance customer acquisition
- Project 3: Implemented Employee Turnover Prediction and Retention Strategy
- Project 2: Tableau Project: Created a Sales Comparison Dashboard
- Project 1: Power BI Project: Created a Amazon Prime Videos Dashboard

EDUCATION

Pursuing Generative-AI Specialization

Jun 2024 – Jan 2025

Purdue University

Post Graduation in Artificial Intelligence & Machine Learning

Apr 2023 – Apr 2024

Caltech University

B.Sc Computer Science

Apr 2006 – Apr 2009

IIMTE Autonomous

TECHNICAL SKILLS

- Java
- Python
- Javascript
- HTML & CSS
- MERN Stack
- REST API
- CRUD Operations
- Git
- AWS
- Azure
- GCP
- IBM Cloud
- Node Js
- Express Js
- Django
- Flask
- Generative AI
- NLP
- Computer Vision
- AI Agents
- MongoDB
- MySQL
- PostgreSQL
- Casandra DB
- TensorFlow
- PyTorch
- Keras
- OpenCV
- Apache Server
- Nginx
- Docker
- Kubernetes
- Windows
- Linux
- Wordpress
- cPanel

CERTIFICATES

Full Stack Development [🔗](#) – 12 Months Course

Cloud Architect : Masters Program [🔗](#) – 11 Months Course

Data Scientist : Masters Program [🔗](#) – 11 Months Course

FINAL THOUGHTS

Dear Hiring Manager,

Throughout my career, I have demonstrated a strong aptitude for software development, and I possess extensive knowledge, experience and certifications in various domains. My expertise includes:

- **Full Stack Development:** MERN Stack, Javascript, Node, Express, MongoDB, REST API, HTML/CSS, Python, Django, Flask, Git, etc.
– As a Full Stack Developer, I can do the Software Product Development and Database Management for the company.
- **AI/ML Engineering:** Tensorflow, Keras, OpenCV, Langchain, Opensource LLMs, NLP, RAG, Computer Vision, Chatbots, AI Agents, etc.
– As an AI/ML Engineer I can build Opensource NLP Chat bots, and Opensource Computer Vision Models for the company.
- **Gen-AI Specialization:** GAN, Azure OpenAI Services, GPT 3 & 4, DALL-E, Stable Diffusion, Hugging Face, MidJourney, RunwayML, etc.
– As a Gen-AI Specialist I can quickly iconfigure Custom Chat bots, and Image Generating Models for the company.
- **Data Science:** Python, Scikit-learn, Matplotlib, Seaborn, Pandas, NumPy, Tableau, Power BI, SQL, NoSQL, Excel, Jupiter, etc.
– As a Data Scientist, I can do the Data Cleaning, Data Processing, Model Building and Dash-boarding for the company.
- **Cloud Architecture:** AWS (EC2, S3, Lambda, RDS, IAM), Azure (Functions, Blob Storage, AD, VPN), Terraform, Load Balancing, etc
– As a Cloud Architect, I can do the Cloud Architectural Planning, Cloud Deployment & Cloud Management for the company.

My experience spans these five domains, where I have successfully completed projects and delivered high-quality software solutions.

My portfolio website showcases my work experience, completed projects, educational background, certifications and skills.

For further details about me and my achievements, please visit ksk-ventures.com/me [🔗](#)

Thank you for considering my application.

Best regards,
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<https://ksk-ventures.com/me> [🔗](#)