

Sujay Kumar

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EXPERIENCE

CREATIVE SYNERGIES GROUP | MODULE LEAD

Sep 2022 - Present | Bangalore

- Participated in end-to-end development of ABLE (Automatically Enforce Bus Lane Restrictions) which can automatically detect and issue violation notices to clear dedicated bus lanes resulting 30% improvement in travel time of passenger commute, using ML, DL, Docker, MLoPS, NLP, python etc.
- Spearheaded the development and deployment of PSA (Predictive stop arm) feature for Navigator application which Protect students from illegal stop arm violations while loading and unloading school bus. Using computer vision, NLP, python etc
- Led a team of data scientists and engineers in the end-to-end development of a predictive maintenance system, resulting in a 25% reduction in equipment downtime and maintenance costs for safe fleet.
- Implemented predictive models for customer churn, providing actionable insights to the business development team and reducing churn by 20%.
- Regularly participated in code reviews, mentored junior team members, and conducted internal training sessions on emerging machine learning techniques and best practices.

ZENSAR | TECHNICAL SPECIALIST

May 2021 - Aug 2022 | Bangalore

- Collaborated with cross-functional teams to design and implement a recommendation engine for Macys.com, leading to a 25% increase in user engagement and a 20% boost in revenue.
- Implemented advanced machine learning algorithms, including deep neural networks, for anomaly detection in large-scale datasets, reducing false positives by 40%.
- Utilised cloud-based services (AWS) for scalable model training and deployment, optimising infrastructure costs and ensuring efficient resource utilisation.

HARMAN | SENIOR SOFTWARE ENGINEER

Mar 2019 — May 2021 | Bangalore

- Participated in end-to-end development and deployment of a real-time image recognition system, resulting in a 30% improvement in accuracy over the existing solution.
- Developed and fine-tuned natural language processing (NLP) models for sentiment analysis, achieving a 95% accuracy rate and contributing to improved customer feedback analysis.
- Conducted in-depth exploratory data analysis (EDA) to identify key insights and trends, influencing strategic decision-making and product roadmap development.

OUTTHINKING PVT LTD | SOFTWARE ENGINEER

Mar 2013 — Mar 2019 | Bangalore

- I was an employee of Outthinking Android Division for 6 years with my role growing from that of a Software Developer to a Sr Software Developer. I worked on Unity 3D and Android platform on the domains of Connectivity and Messaging predominantly.
- Optimised application performance by conducting thorough code reviews, identifying and resolving critical performance bottlenecks, resulting in a 40% reduction in application loading time.
- Build CI/CD pipeline and increase code coverage from 50% to 85%.

EDUCATION

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY

B. TECH | MECHANICAL ENGINEERING

Mar 2009 | ORISSA

CGPA: 7.23 / 10

PROJECTS

- Navigator (ABLE & PSA) | [SAFE FLEET](#)
- MACYS MOBILE APP | [MACYS.COM](#)
- Customised Chatbot using OpenAI, Hugging Face, Lang-chain.
- ML & NLP specific learnings & few open projects.
- Worked on more than 10 Android Applications.

SKILLS

GEN AI

OpenAI API, LangChain, Hugging Face, RAG

PROGRAMMING

Python, Java, Kotlin

DATA PROCESSING

Pandas, NumPy, Matplotlib, Apache Spark, NLP, NLTK, Word2Vec, SpaCy

MACHINE LEARNING FRAMEWORKS

TensorFlow, PyTorch, Scikit-learn, Keras

DEEP LEARNING

Neural Networks, CNNs, RNNs, Transformers,

DATABASES / VECTOR DATABASES

SQL, MongoDB, Room DB, Pinecone, Chroma

CLOUD TECHNOLOGIES

AWS, Azure, Google Cloud

TOOLS | PLATFORMS

Docker, Kubernetes, VS Code, Elvis, ALM, Jira, Jenkins, Confluence, Postman

ANDROID | CROSS-PLATFORM

Flutter, Android Studio, Android SDK, KMM, MVVM, Hilt, Dagger2, Coroutine, Jetpack Compose, Room, Mockito

VERSION CONTROL SYSTEMS

GitHub, BitBucket, GitLab

CODE COVERAGE / ANALYSIS TOOLS

Jacoco, SonarQube, CodeSonar

MISCELLANEOUS

Unity 3D, Vysor, Source Tree

LANGUAGES

English, Hindi

INTERESTS

Pencil sketching, Photography