Shubham Shakya

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Education

University at Buffalo — *Aug 2024 – Dec 2025*
Masters of Science in Computer Science — GPA : 4.0/4.0

National Institute of Technology Kurukshetra — *Aug 2017 – May 2021*
Bachelors of Technology in Information Technology

Experience

NeurIOT Labs — *Delhi, India*
AI Engineer — *Oct 2022 – Jul 2024*

- Architected FindoutGPT, a Bing-like conversational agent built with cutting-edge open-source LLM; enhanced user interaction by streamlining search processes and directly drove engagement metrics up by over 30 percent.
- Revamped keyword strategies within the semantic search function at Findout; devised targeted enhancements that resulted in meaningful increases in content relevancy across thousands of queries processed daily.
- Managed a 2-member cross-functional (product, engineering, Business and support) team and coordinated with 2 senior business member toward the successful launch of an client project.

ByteLearn — *Remote-Part Time, India*
AI Developer — *Jul 2022 – Sep 2022*

- Trained MASK RCNN architecture employing refined data pipelines created with Python scripting methodologies as junior team member for enhancing accuracy to 90 percent after rigorous evaluations.
- Architected a multi-functional dashboard enabling ML development of all stages including dataset curation, training and evaluation metrics analysis; saved over 10 hours per week compared to manual methods.

Samsung Research Institute Delhi — *Delhi, India*
Software Engineer — *Aug 2021 – Feb 2022*

- Designed and executed user centric UI experiences for flagship applications, collaborating closely with cross-functional teams to enhance customer satisfaction scores by 25 percent across diverse enterprise offerings.

Publications

- Abhinav Choudhury, Shubham Shakya, Shruti Kaushik and Varun Dutt. *Chapter 12 - Evaluating cascade prediction via different embedding techniques for disease mitigation.* In Big Data in Psychiatry and Neurology, Elsevier.
- Shubham Shakya and Mayank Dave. *Analysis, Detection, and Classification of Android Malware using System Calls.* In arXiv

Projects

Anya AI — *Anya AI* ↗

- Developed Anya AI a chatbot feature inside Sociallone Platform for personalized content creation in 42 languages. Generate ideas, and captions, and do anything with ease by speaking or typing.

VisualVerse.ai — *VisualVerse.ai* ↗

- Created VisualVerse, a sophisticated tool leveraging AI technology to craft meaningful captions for artists' work; improved caption generation to posting process, empowering photographers with unique narrative capabilities.

Leadership and Achievements

- Designed and Presented **Intro to MLOps** Workshop at UB.
- **Delivered on-site leadership for project** deployment at NeurIOT.
- Led Technobyte and NIT's Tilted Tripod as a CORE Member at NIT Kurukshetra.
- Secured **All India Rank in Top 0.01%** among 1.3 million candidates in Joint Entrance Examination 2017.

Technologies

- **Technologies:** Python, C/C++, Java, JavaScript, Git, Scripting (Bash), MySQL, MongoDB, Elastic Search, RedisDB , Scikit-Learn, Tensorflow, Keras, Pytorch, Matplotlib, HuggingFace, Docker , AWS
- **Tech and Tools:** Adobe Photoshop , Lightroom, Premiere Pro, After Effects , Final Cut Pro, Word, Excel and Powerpoint