SWETASWA BASAK

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EXPERIENCE

R&D-SDE Intern 2023-2024
Nokia Solutions and Network *Chennai, India*

- Developed Database Manipulation tool to populate 5,000,000 devices in one go within 30 minutes. Initially it used to take a minimum of 24 hours. (Tech stack- shell script, mysql)
- Developed trouble shooting tool to monitor Kubernetes cluster and generate timely reports. It looks into memory, cpu limits of all k8s pods. (Tech stack - shell script, python)
- Investigated native memory growth for Wire3 (around 200MB over a period of 2 weeks). (Tech stack- jemalloc, jeprof)
- Improved audit check tool to integrate cpu requests of all k8s pods. (Tech stack- Perl)
- Mastered cross cluster replication to enhance data availability with AlarmsIsBridge.

SKILLS

Programming	JAVA (proficient), C++, Python, .NET, SQL, K8s, Bash, Grafana, Kafka
Languages	English (professional proficiency), Hindi, Bengali, Spanish (elementary proficiency)
Good at	Speaking with you and being by your side

EDUCATION

Master of Technology in Software Engineering, Vellore Institute of Technology, 9.2 CGPA — 2019-2024
Relevant Coursework: Software Construction, Agile Development, Object Oriented Analysis, Knowledge Management, AI, ML, Data Science.

Primary and Higher Secondary, Salt Lake School, CISCE, 95.8 (X), 90.75 (XII) — 2006-2019
Relevant Learning: Science, Presentation Skills, Interpersonal Skills

PROJECTS

AI car simulation. Implemented NEAT (Neural Evolution of Augmented Topology) to simulate the movement of an AI car across a track. Successfully created an AI car model to overcome multiple complex tracks.

Brain Tumor Detection System. Implemented EfficientNetB7 and VGG16 in Python. Successfully classified classes of Brain Tumors. Achieved an accuracy of 98.18% using EfficientNetB7

EXTRA-CURRICULAR ACTIVITIES

- Book enthusiast with a byte for romance and detective novels. Currently taking a stroll though the morning's dewy meadows with Mr. Darcy...yah I know, but how can you not love him and to be honest its my 18th time with this book.
  Admire authors like Jane Austen (of course), Nicholas Sparks, Sandi Lynn, Chetan Bhagat, and R.K. Narayan. All-time favorites include "The Choice," "Malgudi Days," "To Kill a Mockingbird," and the complete works of Sherlock Holmes and Pride and Prejudice (I mean how can you not)
- Love swimming or hitting the gym at the end of the day.

LEADERSHIP

- Marketing Coordinator for Vsplash, TechnoVIT 2022