AYUSH SHARMA

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in ayush9719 ⌂ Ayush9719

EDUCATION

Vellore Institute of Technology, Chennai
B.Tech SCSE 2019
CGPA = 9.04

SKILLS

Software Development: Python, Javascript, FastApi, Svelte, Git
Database Management and ORMs: SQL, Postgres, Neptune, Opensearch, Tortoise, Prisma, TypeOrm, MongoDB
Data Science: Machine Leaning, Natural Language Processing, Computer Vision, Pytorch, TensorFlow, Langchain, Haystack, OpenAI, Prompt Engineering
Cloud, Middleware and Deployment: AWS (ECR, ECS, S3, CloudFormation), Docker, Hasura, Nginx

EXPERIENCE

NOVARTIS HEALTHCARE PRIVATE LIMITED
Senior Software Engineer   Oct. 2022 - Present
- Created a nodejs-based platform that helps users create virtual assistants using their data sources and any LLM. Developed versatile tools/plugins like Azure Rag, OpenSearch, SQL, etc., seamlessly integrating diverse data sources within the chatbot platform.
- Engineered a modular revised backend architecture using Haystack nodes and advanced data processing pipelines for improved efficiency, performance, scalability, and maintainability.
- Orchestrated Alviss, an in-house search engine, using Python, FastAPI, Tortoise, and Prisma ORM for robust schema and data modeling.
- Integrated diverse data sources, including Elastic Search, SharePoint, AWS S3, Neptune, ODBC Servers, multiple Excel/Word files, etc.
- Equipped Hasura as a middleware to expose REST APIs to GraphQL, enhancing flexibility, and Nginx as a reverse proxy for optimized routing and improved security.
- Hosted on AWS ECS via Docker images on ECR, ensuring scalability and high availability, with data management handled by PostgreSQL and logging on CloudWatch.

LAUNCHPAD.AI
Data Scientist   Jan. 2022 - Oct. 2022
- Worked as an External Data Scientist for Levi Strass & Co mentoring 25+ employees globally from multiple business verticals.
- Built a customer segmentation pipeline for Levi's APAC region to optimize marketing efforts.
- Built social listening and sentiment analysis pipelines to improve the LS&Co loyalty program.
- Developed a property listing image processing pipeline as a POC for RE/MAX LLC that involves floor type classification, solar panel detection, HVAC vents detection, damage detection on the rooftop, etc.
- Mentored a team of 10 fellows for Fellowship.ai, working on further enhancing the Product Designing Tool.

BANK OF AMERICA
Software Engineer I -A   Aug. 2021 - Jan. 2022
- Developed a Breaks Management System in a team of 6, that handled failed transactions post reconciliation for International Derivates and Future trades.
- Extended the application for Equity Trades capable of managing up to $10 Million worth of transaction every hour.
- Mentored and Audited a Team through Paycheck Protection Program (PPP) under The Coronavirus Aid, Relief, and Economic Security Act (CARES)
- Received 7 awards internally throughout my tenure at Bank of America

Software Engineer I -B   Jul. 2020 - Jul. 2021
- Developed a new dashboard for the FBI's audit team which generated reports automatically saving about 10 hours a day per report.
- Scored 2nd Place for Code Completion API in Internal AI Hackathon 2020 held across 10k employees.

Senior Tech Associate   Jul. 2019 - Jun. 2020
- Streamlined Breaks Management System by optimising dashboards and removing redundant tasks from the process.
- Scored 1st and 3rd Place for Service Ticket Matcher and Calls Transcript Generator respectively in an Internal AI Hackathon 2019 held across 2k employees.

SYMPHONY AI
Summer Intern   Apr. 2018 - Jun. 2018
- Developed a Legal Document Information Extraction Pipeline for Krystal AI
- Created the pipeline using OCR and NLP to convert unstructured data from lease images into structured data

ACHIEVEMENTS

INTERNATIONAL CONFERENCE ON SMART SYSTEMS (ICSS - ADYPU)
Research Paper on "Semantic String Matching on Quora Question Pairs"

VIT SCSE IOT EXPO 2018 - WINNER
Developed a medicine dispensary system that would help elder or bed ridden patients

INTERNATIONAL CONFERENCE ON NEW TRENDS IN ENGINEERING & TECHNOLOGY (ICNTET 2018)
Research Paper on SNMP Parameters dataset based on simulated DDOS attack