

DEEPAK GATTIDI

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Result-driven Software Engineer with 2 years of experience building innovative web apps and optimizing system performance. Passionate about solving complex problems and delivering impactful solutions.

EDUCATION

Virginia Tech, *MS Computer Science, ML specialization* | Virginia, USA

Dec 2022

Jawaharlal Nehru Technological University, *B.Tech in Computer Science* | Andhra Pradesh, India

Aug 2021

Proud of: GRA under Prof. Song Li | State Coding championship | Tech champ @bloomberg | >3.9 entire education

Courses: Machine Learning with Bigdata | Data Analytics | Theory of Algorithms | Software Engineering| Management Science | Database Management | International Business | Web Development | Artificial Intelligence | Cloud Computing

EXPERIENCE

Bloomberg L.P, *Software Engineer* | New York, USA

Feb 2023 - Ongoing

- Developed a Data modeling and API platform using **React**, **Python**, and **Docker**, enabling the creation of enterprise data models and **OpenAPI** specs.
- Spearheaded the development and design of Collaboration features (Commenting, Notifications, Mentions) and built a Spec Editor for real-time API spec editing along with a Visualizer component for better display and easy.
- Implemented Git sync functionality with **Kafka** pipelines to get updates from dev GitHub and automate deployment, reducing turnaround time for API spec creation and release time from **10 weeks** to **3 weeks**.
- Migrated data to graph databases(**Neo4j**), enabling lineage retrievals and reduced data retrieval time by **40%**.
- Mentored 2 interns** for building the data entry and automated database schema deployment process, which improved API testing coverage by **90%**.

Meta (Facebook), *Software Engineer Intern* | Washington DC, USA

May 2022 - Aug 2022

- Worked with Integrity Menu team, devised an Inline commenting functionality on the menu tool using **React** and **GraphQL**, which helps XFN members to collaborate and document the iterations of the policy launch.
- Created Notification framework for the team using Hack Lang (pHp) to enhance user experience and maintain timely communication.
- Orchestrated design, combined rule-based script and unit tested to validate auto-evaluator with **95%** coverage

Tata Consultancy Services, *Software Engineer Intern* | India

Mar 2021 - Aug 2021

- Worked with ISN(Intelligent services network) team on the research project titled **Intelligent human manager**, collaborated with HR management and was responsible for problem analysis and algorithm development.
- Created a framework that finds and schedules best-suited employees to tasks, leveraged Bipartite graph, COIN|OR package, and **Pyomo** to solve and create **10+** analytical Gantt charts.

TechEra Global, *Software Engineer Intern* | India

May 2020 - Aug 2020

- Demonstrated end-to-end problem solving to develop an **AI chatbot**, improving user experience and customer satisfaction by **40%**. Was responsible for training the assistant, developing UI, adding new features.
- Experimented with ANN, achieved optimal one with **seq2seq** learning model and attained richness in the conversation, built the bot using React, Python, and **MongoDB**.

SKILLS

Languages Python, C/C++, Java, Git, Bash, Javascript, HTML, CSS

Machine Learning TensorFlow, Deep Learning, NLP, Scikit-Learn, Keras, Evaluation, Analytics.

Software Linux, Tensorflow, Pytorch, Docker, Kubernetes, Kafka, Github, Tableau

Certifications Microsoft Azure Fundamentals, MIT6.86x: ML with Python, ML by Stanford, Tableau Analyst .

PROJECTS

3D Stock Analysis

- Created an interactive **3D analytics** tool using Unity(C#) that will enable us to view, touch, and interact with the various stocks immersively. Users can install on **Quest2** and compare upto **5 stocks** at a time with time ranges.

Visual Media Captioning

- Designed a system, which takes image/video as input and produces description. Trained the Seq2Seq learning model with **LSTM** on a corpus of **2000 videos**, **120k** sentences and gained a BLEU score of **0.86**.

Graduate Admission Predictor

- Developed a Predictive model to estimate one's chance of admission into MSCS at a university based on 7 factors(GRE, TOEFL,GPA, etc). Attained **0.91** F1-score and designed GUI using Flask.

VocabBot

- Developed a **RESTful API** that takes user input and gives Meaning/Synonyms/Example sentences. Leveraged the complete **MERN** stack and it is integrated with Twilio WhatsApp sandbox for accessing through WhatsApp.