Gaurav Mishra

Software Development Engineer

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EXPERIENCE

Web Developer, Winners Academy Of Excellence — May 2021 - July 2021

- **Modernized** organizational BOT application : dependency up-gradation, bug fixes, improved language recognition, and enhanced object-oriented system design.
- Implemented **Orchestrator** tool to enable horizontal scaling of user intent handling. The **KNN based NLP model** provided **faster training** and **higher prediction accuracy**.
- Designed and Implemented for **Zero Code Onboarding** of QnAMaker **Knowledge Base**. The onboarding time was **reduced** to **90 seconds** for **10K+ utterances**.
- Designed and Implemented a fully **automated cloud flow** app for WindChill approvals.

Web Developer, Conceptualise — Dec 2020 - Mar 2021

- Developed an **automated software** to count and classify Indian vehicles in moving traffic.
- **Led** a team of **30+ software engineering and research interns** to perform various development operations pertaining to ML/AI research, dataset creation & frontend dev.
- Researched and Implemented methods to improve Nighttime detection accuracy along with implementing **YoloV5** and **deepSort** for **object classification & tracking**.
- The software was able to achieve a vehicle counting **accuracy of 70%+**, with an average **processing time** equal to that of **50%**, leading to **successful deployment across India**.

Mentor (Data Science, Web Development), The Sparks Foundation — Sep 2019 - Aug 2020

- **Product Development**: Actively participated in designing and developing of InCampus Mobile Application & InCampus Event Portal (**1000+ users**).
- **Led** a team of **40+ interns** to achieve a **follower base of 8.20K+** with a **reach of 3.35L+** on our Social media handles. Worked on **200+ Media & Marketing projects**.
- Collaborated with various organizations expanding **reach** over **300+ colleges** & **15+ Cities** connecting **6K+ college students**.

Technical Content Writer, Whitehat jr education pvt. ltd. — Dec 2018 - July 2019

- Responsible for **sales life cycle management**. Generated **organizational revenue** of 900$.
- **Led** a team of **10 associates** across Delhi to deliver **200+ business presentations** to leads.

Campus Ambassador, TedxKiet — Mar 2016

- Selected amongst 1.3Million+ High School students to **collaborate** with the **Indian Educational Ministry** and **Japanese Educational Ambassadors** to portray the Academic culture and diversifications of both nations.

EDUCATION

B. Tech - Computer Science Engineering, — Aug 2018 - June 2022
Poornima College Of Engineering, RTU Kota — **CGPA : 6.84**

Senior Secondary (Class XII), — 2017
Hellen School, Dumra, Sitamarhi, Bihar — **Percentage : 83**

POSITIONS OF RESPONSIBILITY

Mentor, The Sparks Foundation — Sep 2020 - Present

- Worked on **6 corporate projects** along with a team of 12 members pertaining to web, android, and custom software development. Over the course, we have involved more than **80+ interns** from universities all across India.
- Proactive mentoring and encouragement to college students to help them develop a growth mindset. Gathered a net of **5.9K+ reach** on our Social media handles.
- Organized regular **competitive hackathons** along with **C++ Masterclass** - intaking a net of **1200+ students** spreading across **22+ cities** of India.

Co-Curricular Head, PSIIC — Apr 2016 - Jul 2016

- Responsible for **leading 5K+ students** to achieve successful participation in various **national events** across India.
- Led a team of 10 students as **Captain** to represent Mohanbari at **Regional Basketball Championship**. Won numerous achievements in the field of **Literature** and **Mathematics**.

HONORS & AWARDS

- Received Letter Of Recommendation from Whitehat jr Education Pvt. ltd. Achievement & contribution in technical content writing.
- Recognition from The Sparks Foundation for providing professional experience to college students.
- HackerRank **Gold** Badge **Programmer** with early experience of **competetive coding** (CF Max Rating : **1500**).

PROJECTS

Night Time Vehicle Detection & Classification

- A **research project** based on comparative analysis of the state of the art **object detection & classification models** such as YoloV5, YoloV4, Efficient Det, Retina Net, etc. on Indian vehicular dataset pertaining to **Nighttime low quality** and high noise **environmental conditions**.
- Worked with **OpenCV** image processing techniques along with **CNN** based & derived architectures.

IEEE Paper Implementation : Image Compressed Sensing using Convolution Neural Networks

- Introduced a **Pytorch** based implementation for the reconstruction of images using a **compressed sensing** framework.
- Implemented CSNet consisting of block-based compressed sampling and non-linear deep reconstruction model based on **CNN and ResNet architectures**.

C++ 17 Lexical & Syntax Analyser (Compiler)

- Implemented a compiler capable of performing **Lexical** and **Syntax Analysis**.
- Data-Structures such as Tries & Maps were used to implement **parallel navigation**, **serial navigation**, and **LL1 Parsing** techniques.

Konnect Web Chat Application

- A **Socket programming**-based web chat application using **Flask**-python framework as backend and **Java Script** as frontend along with **SQLlite** database to store chat history.
- Developed a way to **send messages** and **share files** across network using Transmission Control Protocols.

Android Application : Regex Patterns

- A **Kotlin** based application using the **Regex** library to process and validate strings and expressions used in day-to-day lives.

Financial Analysis : Reliance Industries

- Used **fundamental techniques** of financial analysis to evaluate the financial statements of Reliance Industries.
- Gathered statistical data and structured them to find out **Statistical Ratio's** to review the economic and financial situation of the company.

SKILLS

Languages / Database
C++, C#, Python, Azure-CosmosDB, Oracle-SQL.

Tools & Framework
.Net ,Microsoft BOT, Azure Tools, Pytorch, Kivy, Tkinter, Keras.

Other
Graphic Designing, UI Design, Social Media Marketing, Financial Analysis, Boxing.