DURGESH KUMAR SINGH

+91-8287372972 ‖ Pune, India ‖ durgesh.vns24@gmail.com ‖ [LinkedIn](#) ‖ [GitHub](#) ‖ [Portfolio](#)

EDUCATION

- **Integrated Master of Technology in Computer Science and Engineering** (2021-Present)
  Specialization in Artificial Intelligence and Machine Learning
  Cumulative GPA - **9.17**, VIT Bhopal University, Bhopal, 466114, M.P. (May, 2021 - May, 2026)
- **XIIth**, Percentage - **74.15** , Nowrosjee Wadia College, Pune(Camp)-411001, Maharashtra (2018-2019)
- **Xth**, Percentage - **98**, Kendriya Vidyalaya Southern Command, Pune(Camp)-411001, Maharashtra (2016-2017)

WORK EXPERIENCE

National Remote Sensing Center, NRSC-ISRO (August, 2024 - Present)
Research Intern *(1 Project)* *Hyderabad, India*
Roles: • **Task Lead** • Deep Learning Engineer
Project: • Renewable Solar Energy Estimation using Satellite Images • [Project-link](#)
- Overhauled **image extraction** from **5+ states** via **Google Earth**, heightening pixel quality by **30%**.
- Accelerated **model training** using **12+** neural networks, leveraging data segmentation to **83%**.

Omdena (June, 2023 - June, 2024)
Task Lead *(1 Project)* *Berlin, Germany*
Roles: • **Task Lead** • Deep Learning Engineer
Project: • Detecting Sources and Severity of Skin Burn • [Certificate-link](#)
- Fine-grained **hypertuning** and **feature extraction** on **10k+** Images, leveraging efficiency by **25%**.
- Managed **10+** teams, **improving operational efficiency** by **25%** thus, delivering projects on time.

PROJECTS

Extreme Weather Forecast for Next 14 Days • [Project-link](#)
Roles: • Machine Learning Engineer • **Data Scientist** • EDA Engineer
- Enhanced **model training** and **preprocessing** on **1M+** data points, reducing parameters by **30%**.
- Overhauled training of the **10+ layered neural network** using TensorFlow, improving the accuracy of **30%**.

Web Application Software for Student Expenditure Tracking
Roles: • **Backend Developer** • Software Developer • Business Logic Designer
- Developed **3+ business logic** to manage and categorize expenses, improving data management by **40%**.
- Integrated **MongoDB Cloud** with **JWT Authentication**, enhancing real-time data security by **30%**.

CO-CURRICULAR ACTIVITIES

- Displayed creative imagination by winning **2+** National level **Fine Art competition** Govt. of India.
- Led a team of **15+** members as Head of Research in Blockchain Club, increasing member participation by **40%**.
- Attained the position of finalist among **50+ teams** in **5+ hackathons** organized by VIT Bhopal University.
- Steered Event Management Team, **improving the project output** by **30%** overall.

EXTRA-CURRICULAR ACTIVITIES

- Achieved recognition as a top **30%** coder by solving over **200+** challenging algorithm problems, showcasing commitment to continuous improvement in coding proficiency.
- Managed **50+** repositories, worked on **10+** open source projects, expanding **software quality**.

ADDITIONAL

- **Tech Stack:** **Artificial Intelligence**, **Java**, SQL, **OS**, TensorFlow, ReactJS, ExpressJS, MongoDB, C++.
- **Software:** **Microsoft SQL Server**, GitHub, IBM Watsonx, **Git**, Gitlab, Jupyter Notebooks, Statistics.
- **Languages:** Fluent in **English**, **Hindi**, Conversational Proficiency in Marathi.