Akash Nath

Computer Science and Engineering
Bachelor of Technology
Assam University, Silchar

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EDUCATION

- **Bachelor of Technology in Computer Science and Engineering** *2021-25*
  Assam University, Silchar CGPA: 7.81

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, bash, PHP
Frameworks and Libraries: TensorFlow, PyTorch, Keras, ReactJS, Node.js, Scikit-learn, OpenCV
Cloud and Databases: AWS (EC2, EKS), Microsoft Azure, MongoDB, IBM Watson Studio
Tools and Environments: Git, GitHub Actions, VSCode, Unix/Linux, Windows, macOS
Concepts: Distributed Systems, Machine Learning, Information Retrieval, TCP/IP, Web Security
Areas of Interest: Artificial Intelligence, Deep Learning Models, GAN, Computer Vision, ML models

PERSONAL PROJECTS

- **VINO AI** *June 2023 - Sep 2023*

  VINO AI is an advanced AI-driven web platform designed with modern web technologies.

  - Architected a highly scalable web platform powered by AI, ensuring robust performance and seamless user experience.
  - Designed and deployed a distributed system to optimize data processing efficiency.
  - Integrated advanced AI features like image restoration and search algorithms.
  - Implemented secure data management with MongoDB, Clerk for authentication, and Stripe for payments.
  - Visit

- **Enhanced Plant Disease Detection System** *Nov 2023 - Dec 2023*

  Utilizes CNN Ensemble and Gradient Boosting for Plant Disease Detection.

  - Designed a CNN Ensemble utilizing architectures like AlexNet, VGG-16, and YOLO-V5 to achieve robust and accurate classification of plant diseases.
  - Applied advanced data pre-processing, including image augmentation, to enhance model performance.
  - Achieved 92.33% accuracy through hyper parameter tuning and cross-validation
  - Tools: TensorFlow, Keras, NumPy, scikit-learn, pandas, Python.

EXPERIENCE

- **Software Engineer Intern @NIT** *May - Present*

  NIT, Silchar Hybrid
  - Spearheaded the development of advanced DevOps tools, significantly enhancing deployment efficiency.
  - Architected real-time IoT data acquisition systems utilizing MongoDB, JavaScript, and Socket.IO for seamless data flow.
  - Leveraged in-depth expertise in the AWS Well-Architected Framework to optimize security, performance, and cost efficiency.
  - Orchestrated the integration of applications with AWS EC2 and EKS, ensuring robust and scalable infrastructure management.

- **EVM Chain Analytic** *Feb 2022 - Apr 2022*

  Solana Labs Remote
  - Achieved 30% growth for Dapps and EVM(fraud detection) using IPFS(InterPlanetary File System) for proper management of database for web3, used Infura for scalable and reliable access to Ethereum nodes and APIs, and Web3.js is ued to deploy SC, DApp
  - Developed EVM(Ethereum Virtual Machine) chain pattern detection and developed seamless way to track any transactional fraud and reduced 12% fraud in the chain

ACHIEVEMENTS

- **CodeChef: 4* coder** Verify

  - Global Rank: 5013
  - Country Rank: 3962.

- **Azure AI Document Intelligence** Verify

- **Build an Azure AI Vision solution** Verify

- **Microsoft Transcript** Verify